

POLIS SRL

Via Artigianale n°19 25020 Cignano di Offlaga (BS)
Laboratorio Tel. 030/9976298 Fax 030/9776126

www.polisweb.it



TECHNICAL DATASHEET

POLIS SRL

INDEX (table of contents)

PRODUCT	PAG.	PRODUCT	PAG.
PMX 01	1	P/20 GL	34
PMX 01 M	2	P/20 GL 5 GR	35
PMX 01 TQ	3	P/25 GL	36
PMX 01 TQ M	4	P/25 GL BIL	37
PMX 02	5	P/25 GL NPA	38
PMX 02 A	6	P/25 GL MD	39
PMX 02 N	7	P/25 GL MD BIL	40
PMX 02 NS	8	P/25 GL 2 YM	41
PMX 03	9	P/25 FR	42
PMX 03 AFF	10	P/25 FR BIL	43
P/FF, P/FF S, P/FF 20 S	11	P/BLU 2 MD SF	44
P/FF HD S	12	P/28 GL BLU	45
P/FF HDS T	13	P/28 GL VX1	46
P/FF HDS TK	14	P/28 GL BLU BIL	47
P/FF HD R	15	P/40 GL	48
P/MD	16	P/10 CAR	49
P/MD L	17	P/10 CAR (CAR + GR)	50
P/MD X - XM	18	P/15 CAR	51
P/100 E	19	P/15 CAR MD	52
P/100 ES	20	P/15 CAR 5 GL	53
P/148 ES	21	P/20 CAR	54
P/149 ES	22	P/20 CAR 5 GR	55
P/5 GL 5 MOS	23	P/23 CAR 2 GR	56
P/10 GL 15 CAR	24	P/23,5 CAR 1,5 GR	57
P/10 GL 15 CAR 2 GR	25	P/25 CAR	58
P/15 GL	26	P/25 CAR X BIL	59
P/15 GL BIL	27	P/25 CAR MD	60
P/15 GL NPA	28	P/25 CAR B	61
P/15 GL MD	29	P/25 CAR B MD	62
P/15 GL 5 GR	30	P/25 CAR CL	63
P/15 GL 5 MOS	31	P/25 CAR 5 CER	64
P/15 GL GREEN	32	P/29 CAR 3 GR	65
P/15 GL MD BROWN	33	P/32 CAR	66

PRODUCT	PAG.	PRODUCT	PAG.
P/33 CAR	67	P/15 RJ BIL	100
P/33 CAR 2 GR	68	P/10 CF (Type PITCH)	101
P/35 CAR	69	P/10 CF (Type PAN)	102
P/35 CAR MD	70	P/10 EK	103
P/5 GR	71	P/EK S	104
P/10 GR	72	P/10 GR	105
P/15 GR	73	P/10 PPS	106
P/25 BZ	74	P/20 PPS	107
P/40 BZ	75	P/15 AL	108
P/40 BZ GREEN	76	P/15 CER	109
P/40 BZ OXD	77	P/15 GR V	110
P/40 BZ GREEN OXD	78	P/15 PEEK	111
P/40 BZ VE	79	P/20 PEEK	112
P/BZ GREEN SPECIAL BIL	80	P/20 CAF BROWN	113
P/T 46	81	P/25 CAF BROWN	114
P/40 BZ 5 GR	82	P/50 INOX	115
P/40 BZ 1 MOS	83	P/BLU	116
P/40 BZ 1 MOS GREEN	84	P/BLU 2	117
P/40 BZ 3 MOS	85	P/BLU 5 BIL	118
P/40 BZ 5 MOS	86	P/MD BLU	119
P/40 BZ 5 MOS GREEN	87	P/BLACK	120
P/50 BZ 7,5 GL	88	P/RED	121
P/55 BZ 5 GR	89	P/RED 1	122
P/55 BZ 5 MOS	90	P/YELLOW 1	123
P/60 BZ	91		
P/0,1 MOS	92		
P/0,2 MOS	93		
P/0,3 MOS	94		
P/1,2 CSC	95		
P/1,2 CSC FDA	96		
P/1,2 CSC MD FDA	97		
P/10 RJ	98		
P/15 RJ	99		

POLIS SRL

Via Artigianale n°19 25020 Cignano di Offlaga (BS)
Laboratorio Tel. 030/9976298 Fax 030/9776126

www.polisweb.it



UNI EN ISO 9001:2015

POLIS SRL

TECHNICAL DATASHEET

PMX 01

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MICRONIZED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	32
Elongation*	ASTM D 4894	%	260
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	20 - 22

* cross direction

RECOMMENDED MOULDING PRESSURE:	200-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 01 M

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MICRONIZED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	240
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,3
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	40 - 50

* cross direction

RECOMMENDED MOULDING PRESSURE:	200-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 01 TQ

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MICRONIZED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	360
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	20 - 26

* cross direction

RECOMMENDED MOULDING PRESSURE:	200-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 01 TQ M

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MICRONIZED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	340
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	40 - 50

* cross direction

RECOMMENDED MOULDING PRESSURE:	200-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 02

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	250
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	150 - 250

* cross direction

RECOMMENDED MOULDING PRESSURE:	200-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 02 A

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	250
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	150 - 250

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE. Can be used to make big billets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 02 N

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	28
Elongation*	ASTM D 4894	%	220
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	150 - 250

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE. Can be used to make big billets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 02 NS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	28
Elongation*	ASTM D 4894	%	220
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	150 - 250

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE. Can be used to make big billets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 03

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	27
Elongation*	ASTM D 4894	%	280
Bulk Density	ASTM D 4894	g/l	400-500
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	85 - 95

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375°C

GENERAL APPLICATION:

Typical properties and application of PTFE.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

PMX 03 AFF

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	32
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	670-730
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	4
Flow stability	INTERNAL	Sec/50 g	4
Average particle size	ISO 13320	µm	600-900

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, valves, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/FF - P/FF S – P/FF 20 S

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF	GRADE FF S	GRADE FF 20 S
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	30	27
Elongation*	ASTM D 4894	%	250	260	250
Bulk Density	ASTM D 4894	g/l	600 - 730	710-740	750- 800
Hardness	NEEDLE	Shore D	60 - 54	60-54	60-54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	4	4	6
Flow stability	INTERNAL	Sec/50 g	4	4	6
Average particle size	ISO 13320	µm	600 - 900	500 - 700	200 - 450

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, valves, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/FF HDS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	260
Bulk Density	ASTM D 4894	g/l	800 - 880
Hardness	NEEDLE	Shore D	60 - 54
Diametric Shrinkage	INTERNAL	%	2.5+/-0.5
Flow	INTERNAL	Sec/50 g	3
Flow stability	INTERNAL	Sec/50 g	3
Average particle size	ISO 13320	µm	400 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/FF HDS T

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF HDS T
Specific gravity	ASTM D 4894	g/cm ³	2,16 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	260
Bulk Density	ASTM D 4894	g/l	750
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	2,5+/-0,5
Flow	INTERNAL	Sec/50 g	4
Flow stability	INTERNAL	Sec/50 g	4
Average particle size	ISO 13320	µm	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, valves, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/FF HDS T K

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF HDS TK
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	260
Bulk Density	ASTM D 4894	g/l	750
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	2.5+/-0.5
Flow	INTERNAL	Sec/50 g	4
Flow stability	INTERNAL	Sec/50 g	4
Average particle size	ISO 13320	µm	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, valves, seals and gaskets

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/FF HDR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF HD R
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	260
Bulk Density	ASTM D 4894	g/l	780-830
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	3
Flow stability	INTERNAL	Sec/50 g	3
Average particle size	ISO 13320	µm	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MODIFIED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	28	28
Elongation*	ASTM D 4894	%	400	380	350
Bulk Density	ASTM D 4894	g/l	-	600 - 670	760 - 820
Hardness	NEEDLE	Shore D	60 - 54	60 - 54	60 - 54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	150 - 200	400 - 700	400 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

GENERAL APPLICATION:

Typical properties and application of modified PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/MD L

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MODIFIED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	28	28
Elongation*	ASTM D 4894	%	400	380	350
Bulk Density	ASTM D 4894	g/l	-	600 - 670	760 - 820
Hardness	NEEDLE	Shore D	60 - 54	60 - 54	60 - 54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	150 - 200	400 - 700	400 - 600

* cross direction

RACCOMENDATO MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

GENERAL APPLICATION:

Typical properties and application of modified PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/MD X - XM

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% MODIFIED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF (X)	GRADE NFF (XM)
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	32	32
Elongation*	ASTM D 4894	%	380	380
Bulk Density	ASTM D 4894	g/l	-	-
Hardness	NEEDLE	Shore D	60 - 54	60 - 54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	-
Flow stability	INTERNAL	Sec/50 g	-	-
Average particle size	ISO 13320	µm	25 - 30	40-50

* cross direction

RACCOMENDATED MOULDING PRESSURE:	200-250 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

GENERAL APPLICATION:

Typical properties and application of modified PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/100 E

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	250
Bulk Density	ASTM D 4894	g/l	400 - 500
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	-
Flow	INTERNAL	Sec/50 g	8
Flow stability	INTERNAL	Sec/50 g	8
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	-
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/100 ES

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE ES
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	250
Bulk Density	ASTM D 4894	g/l	400 - 500
Hardness	NEEDLE	Shore D	64-60
Diametric Shrinkage	INTERNAL	%	-
Flow	INTERNAL	Sec/50 g	7
Flow stability	INTERNAL	Sec/50 g	7
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	-
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

Typical properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/148 ES

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE ES
Specific gravity	ASTM D 4894	g/cm ³	2,16 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	250
Bulk Density	ASTM D 4894	g/l	400-500
Hardness	NEEDLE	Shore D	60-54
Diametric Shrinkage	INTERNAL	%	-
Flow	INTERNAL	Sec/50 g	6
Flow stability	INTERNAL	Sec/50 g	6
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	-
MAX SINTERING TEMPERATURE:	370-375 °C

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/149 ES

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2,16 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	250
Bulk Density	ASTM D 4894	g/l	500 - 650
Hardness	NEEDLE	Shore D	60-55
Diametric Shrinkage	INTERNAL	%	-
Flow	INTERNAL	Sec/50 g	4
Flow stability	INTERNAL	Sec/50 g	4
Average particle size	ISO 13320	µm	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:	-
MAX SINTERING TEMPERATURE:	370-375 °C

Applications: Virgin extrusion PTFE studied for thin walls .

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/ 5 GL 5 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
5% +/- 0,5 GLASS FIBRE
5% +/- 0,5 Molybdenum Disulfide

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.22 +/- 0.02	2.22 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	24	20
Elongation*	ASTM D 4894	%	290	240
Bulk Density	ASTM D 4894	g/l	-	750
Hardness	NEEDLE	Shore D	63 - 59	63 - 59
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0.5	2,5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	3
Flow stability	INTERNAL	Sec/50 g	-	3
Average particle size	ISO 13320	µm	-	400 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	365 -370 °C

General application:

This compound has a high temperature stability (dimensional stability) and high pressure resistance. Reduced cold flow and an increment in the dielectric properties. Good chemical resistance against organic solvents. The MoS₂ content reduces friction and abrasion of the metal counterpart. Not suitable for soft metal counterparts. Limitation for hot water usage.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 GL 15 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
10% +/- 1 GLASS FIBRE
15% +/- 1 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.11 +/- 0.05
Tensile Strength*	ASTM D 4894	Mpa	18
Elongation*	ASTM D 4894	%	80
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	58 +/- 6
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Sealing for water, gas valves seals, must keep full sealing function also after several openings. Seals are over snapped when fit into groove without changing of dimension. Ring tolerances are kept within a very small range.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 GL 15 CAR 2 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

73% VIRGIN PTFE
10% +/- 1 GLASS FIBRE
15% +/- 1 CARBON COKE
2% +/- 0,2 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,11 +/- 0,05
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	110
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	58 +/- 6
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Sealing for water, gas valves seals, must keep full sealing function also after several openings. Seals are over snapped when fit into groove without changing of dimension. Ring tolerances are kept within a very small range.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.21 +/- 0.02	2.21 +/- 0.02	2.21 +/- 0.02	2.21 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25	22	20	19
Elongation*	ASTM D 4894	%	300	280	260	230
Bulk Density	ASTM D 4894	g/l	-	600 - 700	700 - 800	650-750
Hardness	NEEDLE	Shore D	64 - 60	64 - 60	64 - 60	64 - 60
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3	6
Flow stability	INTERNAL	Sec/50 g	-	4	3	6
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 GLASS FIBRE + SPECIAL ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.21 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	300
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	64 - 60
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

This grade offers a good wear and excellent chemical resistance.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL NPA

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 GLASS FIBRE + SPECIAL NON POROUS ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.21 +/- 0.02	2.21 +/- 0.02	2.21 +/- 0.02	2.21 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25	22	20	19
Elongation*	ASTM D 4894	%	300	280	260	230
Bulk Density	ASTM D 4894	g/l	-	600 - 700	700 - 800	650-750
Hardness	NEEDLE	Shore D	64 - 60	64 - 60	64 - 60	64 - 60
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3	6
Flow stability	INTERNAL	Sec/50 g	-	4	3	6
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Recommended for valve seats, gaskets, seals and components requiring resistance to creep and chemical attack. Suitable as a bearing material for low PV values. At high loads and speeds the wear rate increases and there is a risk of scoring shafts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% MODIFIED VIRGIN PTFE
15% +/- 1 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2,21 +/- 0,02	2,21 +/- 0,02	2,21 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	25	22	20
Elongation*	ASTM D 4894	%	350	330	300
Bulk Density	ASTM D 4894	g/l	-	700	650
Hardness	NEEDLE	Shore D	60 - 57	60 - 57	60 - 57
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5	-
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-370 °C

General application:

Sealing for water, gas valves seals, must keep full sealing function also after several openings. Seals are over snapped when fit into the groove without changing of dimension. Ring tolerances are kept within a very small range.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL 5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
15% +/- 1 GLASS FIBRE
5 % +/- 0,5 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.20 +/- 0.03	2.20 +/- 0.03	2.20 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	22	20	18
Elongation*	ASTM D 4894	%	250	230	200
Bulk Density	ASTM D 4894	g/l	-	600	630
Hardness	NEEDLE	Shore D	63 - 60	63 - 60	63 - 60
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0.5	2,5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This compound has a high temperature stability (dimensional stability) and high pressure resistance. Good chemical resistance, for example, against organic solvents. The graphite content reduces friction and abrasion of the metal counterpart.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL 5 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
15% +/- 1 GLASS FIBRE
5 % +/- 0,5 Molybdenum Disulfide

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.27 +/- 0.02	2.27 +/- 0.02	2.27 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	24	22	20
Elongation*	ASTM D 4894	%	280	250	220
Bulk Density	ASTM D 4894	g/l	-	700	700
Hardness	NEEDLE	Shore D	65 - 63	65 - 63	65 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

This compound has a high temperature stability (dimensional stability) and high pressure resistance. Reduced cold flow and an increment in the dielectric properties. Good chemical resistance against organic solvents. The MoS₂ content reduces friction and abrasion of the metal counterpart. Not suitable for soft metal counterparts. Limitation for hot water usage.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL GREEN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE

15% +/- 1 GLASS FIBRE + SPECIAL PIGMENT CONFORM TO RoHS EUROPEAN DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.21 +/- 0.02	2.21 +/- 0.02	2.21 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25	22	20
Elongation*	ASTM D 4894	%	280	240	210
Bulk Density	ASTM D 4894	g/l	-	650	600
Hardness	NEEDLE	Shore D	64 60	64-60	64-60
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 700	400 -8

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 ° C

General application:

This grade offers a good wear and excellent chemical resistance.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GL MD BROWN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% MODIFIED VIRGIN PTFE
15% +/- 1 GLASS FIBRE + SPECIAL BROWN PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF/E
Specific gravity	ASTM D 4894	g/cm ³	2.21 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	350
Bulk Density	ASTM D 4894	g/l	680
Hardness	NEEDLE	Shore D	60
Diametric Shrinkage	INTERNAL	%	3.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	5
Flow stability	INTERNAL	Sec/50 g	5
Average particle size	ISO 13320	µm	500 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400 - 500 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Sealings for water, gas valves seals, must keep full sealing function also after several openings. Seals are over snapped when fit into the groove without of dimension. Ring tolerances are kept within a very small range.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 GL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
20% +/- 1 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2,22 +/- 0,03	2,22 +/- 0,03	2,22 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	24	22	20
Elongation*	ASTM D 4894	%	270	240	200
Bulk Density	ASTM D 4894	g/l	-	600 - 700	600
Hardness	NEEDLE	Shore D	55-60	55-60	55-60
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0,5	2,5 +/- 0,5	-
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 GL 5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
20% +/- 1 GLASS FIBRE
5 % +/- 0,5 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.22+/-0.03	2.22+/-0.03	2.22+/- 0.03	2.22 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	20	18	18	16
Elongation*	ASTM D 4894	%	270	250	200	200
Bulk Density	ASTM D 4894	g/l	-	600	650	650
Hardness	NEEDLE	Shore D	65 - 61	65 - 61	65 - 61	65 - 61
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3	3
Flow stability	INTERNAL	Sec/50 g	-	4	3	3
Average particle size	ISO 13320	µm	-	400 - 600	400 - 500	400 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This compound offers a good wear and excellent chemical resistance. Graphite content reduces friction.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 GL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
25% +/- 2 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2,24 +/- 0,02	2,24 +/- 0,02	2,24 +/- 0,02	2,24 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	23	20	20	18
Elongation*	ASTM D 4894	%	270	250	230	200
Bulk Density	ASTM D 4894	g/l	-	600 - 700	650 - 750	700
Hardness	NEEDLE	Shore D	66 - 63	66 - 63	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5	2,0 +/- 0,5	2,0 +/- 0,5	-
Flow	INTERNAL	Sec/50 g	-	4	3	3
Flow stability	INTERNAL	Sec/50 g	-	4	3	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance. For bearing applications is considered to have optimum glass content and is recommended where contact with hydrochloric acid is involved.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 GL BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
25% +/- 2 GLASS FIBRE + SPECIAL ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.24 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

This grade offers a good wear and excellent chemical resistance. For bearing applications is considered to have optimum glass content and is recommended where contact with hydrochloric acid is involved.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 GL NPA

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
25% +/- 2 GLASS FIBRE + SPECIAL NON POROUS ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.24 +/- 0.02	2.24 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23	20
Elongation*	ASTM D 4894	%	270	200
Bulk Density	ASTM D 4894	g/l	-	-
Hardness	NEEDLE	Shore D	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	6
Flow stability	INTERNAL	Sec/50 g	-	6
Average particle size	ISO 13320	µm	-	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Recommended for valve seats, gaskets, seals and components requiring resistance to creep and chemical attack. Suitable as a bearing material for low PV values. At high loads and speeds the wear rate increases and there is a risk of scoring shafts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 GL MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% MODIFIED VIRGIN PTFE
25% +/- 2 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.24 +/- 0.02	2.24 +/- 0.02	2.24 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	24	20	18
Elongation*	ASTM D 4894	%	350	330	300
Bulk Density	ASTM D 4894	g/l	-	700	750
Hardness	NEEDLE	Shore D	60 - 54	60 - 54	60 - 54
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

This grade offer a extremely high elongation. Is optimum for sealing for water, gas valves seals, must keep full sealing function also after several openings.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 GL MD BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% MODIFIED VIRGIN PTFE
25% +/- 2% GLASS FIBRE + SPECIAL ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,24 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	24
Elongation*	ASTM D 4894	%	350
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	60 - 54
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

This grade offer a extremely high elongation. Is optimum for sealing for water, gas valves seals, must keep full sealing function also after several openings

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 GL 2 YW

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

74% VIRGIN PTFE
24% +/- 2 GLASS FIBRE
2% +/- 0,2 SPECIAL PIGMENT "Cadmium free"

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.23 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance. For bearing applications is considered to have optimum glass content and is recommended where contact with hydrochloric acid is involved.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 FR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE

25% +/- 2 GLASS FIBRE + SPECIAL PIGMENT CONFORM TO EUROPEAN RoHS DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.24 +/- 0.02	2.24 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23	20
Elongation*	ASTM D 4894	%	270	250
Bulk Density	ASTM D 4894	g/l	-	600 - 700
Hardness	NEEDLE	Shore D	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance. For bearing applications is considered to have optimum glass content and is recommended where contact with hydrochloric acid is involved.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 FR BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE

25% +/- 2 GLASS FIBRE + SPECIAL PIGMENT CONFORM TO EUROPEAN RoHS DIRECTIVE + SPECIAL ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,24 +/- 0,02
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	66 - 63
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

This grade offers a good wear and excellent chemical resistance. For bearing applications is considered to have optimum glass content and is recommended where contact with hydrochloric acid is involved.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/BLU 2 MD SF

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

87% MODIFIED VIRGIN PTFE

13% +/- 1 GLASS BUBBLES + Special blu pigment

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	1.80 +/- 0.05
Tensile Strength*	ASTM D 4894	Mpa	15
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	50-55
Diametric Shrinkage	INTERNAL	%	3.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

This grade offers a good wear and excellent chemical resistance. This product is interesting for the less density and the less abrasive surface respect to a conventional compound with glass fibers.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/28 GL BLU

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

72% VIRGIN PTFE
28% +/- 2% GLASS FIBRE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.25+/-0.02	2.25+/-0.02
Tensile Strength*	ASTM D 4894	Mpa	22	20
Elongation*	ASTM D 4894	%	270	230
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance. For bearing application, P/28 GL is considered to have optimum glass content and is recommended where contact with a strong acid or strong base occurs.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/28 GL BLU VX1

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

72% VIRGIN PTFE
28% +/- 2 GLASS FIBRE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.25+/-0.02	2.25+/-0.02	2.25+/-0.02
Tensile Strength*	ASTM D 4894	Mpa	22	20	18
Elongation*	ASTM D 4894	%	270	230	200
Bulk Density	ASTM D 4894	g/l	-	650	650
Hardness	NEEDLE	Shore D	66 - 63	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance. For bearing application, P/28 GL is considered to have optimum glass content and is recommended where contact with a strong acid or strong base occurs.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/28 GL BLU BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

72% VIRGIN PTFE
28% +/- 2 GLASS FIBRE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.25+/-0.02
Tensile Strength*	ASTM D 4894	Mpa	22
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

This grade offers a good wear and excellent chemical resistance. For bearing application, P/28 GL is considered to have optimum glass content and is recommended where contact with a strong acid or strong base occurs.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 GL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE
40% +/- 2 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.27 +/- 0.02	2.27 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	14	12
Elongation*	ASTM D 4894	%	140	120
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	65 - 63	65 - 63
Diametric Shrinkage	INTERNAL	%	1.6 +/- 0.5	1.6 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This grade offers a good wear and excellent chemical resistance. For bearing application, P/28 GL is considered to have optimum glass content and is recommended where contact with a strong acid or strong base occurs.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	26	24	20
Elongation*	ASTM D 4894	%	260	240	200
Bulk Density	ASTM D 4894	g/l	-	600 - 700	650
Hardness	NEEDLE	Shore D	65 - 60	65 - 60	65 - 60
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 700	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 CAR (CAR + GR)

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

**90% VIRGIN PTFE
10% +/- 1 CARBON COKE + GRAPHITE POWDER**

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	26	22
Elongation*	ASTM D 4894	%	280	260	220
Bulk Density	ASTM D 4894	g/l	-	600 - 700	700
Hardness	NEEDLE	Shore D	65 - 60	65 - 60	65 - 60
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 600	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HDS	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.10+/-0.04	2.10+/-0.04	2.10+/-0.04	2.10+/-0.04
Tensile Strength*	ASTM D 4894	Mpa	20	18	16	15
Elongation*	ASTM D 4894	%	230	210	200	150
Bulk Density	ASTM D 4894	g/l	-	600 - 650	700	600 - 650
Hardness	NEEDLE	Shore D	62 - 65	62 - 65	62 - 65	62 - 65
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3	6
Flow stability	INTERNAL	Sec/50 g	-	4	3	6
Average particle size	ISO 13320	µm	-	400 - 700	400- 600	400 - 80

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 CAR B MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN MODIFIED PTFE
15% +/- 1 SOFT CARBON

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	2.10+/-0.04
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	280
Bulk Density	ASTM D 4894	g/l	700
Hardness	NEEDLE	Shore D	62-60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	3
Flow stability	INTERNAL	Sec/50 g	3
Average particle size	ISO 13320	µm	400- 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 CAR 5 GL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
15% +/- 1 CARBON COKE
5% +/- 0,5 GLASS FIBER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.15+/-0.03
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	200
Bulk Density	ASTM D 4894	g/l	600-650
Hardness	NEEDLE	Shore D	64-60
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	4
Flow stability	INTERNAL	Sec/50 g	4
Average particle size	ISO 13320	µm	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-450 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
19% +/- 1 CARBON COKE
1 % +/- 0,1 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.12+/-0.03	2.12+/-0.03	2.12+/-0.03
Tensile Strength*	ASTM D 4894	Mpa	25	20	18
Elongation*	ASTM D 4894	%	150	120	100
Bulk Density	ASTM D 4894	g/l	-	630	600
Hardness	NEEDLE	Shore D	63 - 66	63 - 66	63 - 66
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0.5	2,5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 600	600 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 CAR 5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
20% +/- 1 CARBON COKE
5 % +/- 0,5 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03	2.09 +/- 0.03	2.09 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	22	20	18
Elongation*	ASTM D 4894	%	160	130	100
Bulk Density	ASTM D 4894	g/l	-	600	600
Hardness	NEEDLE	Shore D	65 - 68	65 - 68	65 - 68
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 700	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors. The graphite powder content reduces friction and improves the physical properties.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/23 CAR 2 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
23% +/- 2 CARBON COKE
2 % +/- 0,2 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03	2.09 +/- 0.03	2.09 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	22	20	18
Elongation*	ASTM D 4894	%	120	100	80
Bulk Density	ASTM D 4894	g/l	-	600	600
Hardness	NEEDLE	Shore D	65 - 68	65 - 68	65 - 68
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 700	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors. The graphite powder content reduces friction and improves the physical properties.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/23,5 CAR 1,5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
23,5% +/- 2 CARBON COKE
1,5% +/- 0,2 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,09 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	110
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	65 - 68
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
23% +/- 2 CARBON COKE
2% +/- 0,2 GRAPHITE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03	2.09 +/- 0.03	2.09 +/- 0.03	2.09 +/- 0.03
Tensile Strenght*	ASTM D 4894	Mpa	22	20	18	18
Elongation*	ASTM D 4894	%	110	80	60	70
Bulk Density	ASTM D 4894	g/l	-	600	700	700 - 800
Hardness	NEEDLE	Shore D	65 - 68	65 - 68	65 - 68	65 - 68
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	-	-
Flow	INTERNAL	Sec/50 g	-	4	3	3
Flow stability	INTERNAL	Sec/50 g	-	4	3	3
Average particle size	ISO 13320	µm	-	400 - 700	400 - 650	400 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE: 400-500 Kg/cm²
MAX SINTERING TEMPERATURE: 370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR X BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
23% +/- 2 CARBON COKE
2% +/- 0,2 GRAPHITE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	22
Elongation*	ASTM D 4894	%	110
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	65 - 68
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN MODIFIED PTFE
25% +/- 2 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03	2.09 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	25	23
Elongation*	ASTM D 4894	%	80	60
Bulk Density	ASTM D 4894	g/l	-	500-560
Hardness	NEEDLE	Shore D	65 - 68	65 - 68
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR B

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
25% +/- 2 ELECTROGRAPHITIZED CARBON (*Soft carbon*)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	2.11 +/- 0.02	2.11 +/- 0.02	2.11 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	22	18	17
Elongation*	ASTM D 4894	%	220	180	160
Bulk Density	ASTM D 4894	g/l	-	640	650
Hardness	NEEDLE	Shore D	68 - 65	68 - 65	68 - 65
Diametric Shrinkage	INTERNAL	%	3.0 +/- 0.5	3.0 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400 - 700	400 - 800

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It is a good choice for water application and electrical conductive when highly filled. It is a good solution in Sealing, bearings in piston compressor, V-rings-packing, lip-seals, piston-rod-pack. Not resistant against heavily oxidizing agents (acid, leaches, halogens).

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR B MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN MODIFIED PTFE
25% +/- 2 ELECTROGRAPHITIZED CARBON (*Soft carbon*)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	2.11 +/- 0.02	2.11 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	15	14
Elongation*	ASTM D 4894	%	80	70
Bulk Density	ASTM D 4894	g/l	-	650-750
Hardness	NEEDLE	Shore D	65 - 68	62 - 65
Diametric Shrinkage	INTERNAL	%	3.0 +/- 0.5	3.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	3
Flow stability	INTERNAL	Sec/50 g	-	3
Average particle size	ISO 13320	µm	-	500 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It is a good choice for water application and electrical conductive when highly filled. It is a good solution in Sealing, bearings in piston compressor, V-rings-packing, lip-seals, piston-rod-pack. Not resistant against heavily oxidizing agents (acid, leaches, halogens).

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR CL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
23,5% +/- 2 CARBON COKE
1,5% +/- 0,2 SPECIAL GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	120
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	66 - 63
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors. This compound has a very good permeability property.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAR 5 CER

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

70% VIRGIN PTFE
25% +/- 2 CARBON COKE
5% +/- 0,5 CERAMIC POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,08 +/- 0,05
Tensile Strength*	ASTM D 4894	Mpa	18
Elongation*	ASTM D 4894	%	60
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	65 - 67
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	450 - 550 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/29 CAR 3 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

68% VIRGIN PTFE
29% +/- 2 CARBON COKE
3 % +/- 0,3 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.12+/-0.02
Tensile Strength*	ASTM D 4894	Mpa	18
Elongation*	ASTM D 4894	%	70
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	63 - 66
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors. The graphite powder content reduces friction and improves the physical properties.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/32 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

68% VIRGIN PTFE
32% +/- 2 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.06+/-0.03	2.06+/-0.03
Tensile Strength*	ASTM D 4894	Mpa	18	15
Elongation*	ASTM D 4894	%	70	50
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	63 - 66	63 - 66
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	5
Flow stability	INTERNAL	Sec/50 g	-	5
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/33 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

67% VIRGIN PTFE
31% +/- 2 CARBON COKE
2% +/- 0,2 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.05+/-0.03
Tensile Strength*	ASTM D 4894	Mpa	18
Elongation*	ASTM D 4894	%	80
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	63 - 66
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/33 CAR 2 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

65% VIRGIN PTFE
33% +/- 2 CARBON COKE
2% +/- 0,2 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2,05+/-0,03	2,05+/-0,03
Tensile Strength*	ASTM D 4894	Mpa	16	13
Elongation*	ASTM D 4894	%	80	60
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	63 - 66	63 - 66
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/35 CAR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

65% VIRGIN PTFE
35% +/- 2 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.05+/-0.03	2.05+/-0.03
Tensile Strength*	ASTM D 4894	Mpa	16	13
Elongation*	ASTM D 4894	%	70	50
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	63 - 66	63 - 66
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/35 CAR MD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

65% MODIFIED VIRGIN PTFE
35% +/- 2 CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.05 +/-0.03
Tensile Strength*	ASTM D 4894	Mpa	18
Elongation*	ASTM D 4894	%	60
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	63 - 66
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

It is preferable to other grades for application involving hydrofluoric acid. It has a higher wear rate. It has proved successfully as piston rings material, particularly in oil-free compressors.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

95% VIRGIN PTFE
5% +/- 0,5 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	300
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	53 - 56
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This compound is used against aggressive and corrosive agents. It is used in hot water and steam application. It has a good heat conductivity. It has permission for usage in food application. The wear characteristics approximately 5 times better than virgin PTFE. Low coefficient of friction compared to GL/CAR/BZ compounds. Low abrasion when used against soft metals counterparts. Low hardness compared to standard compounds as GL/CAR/BZ etc.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF	GRADE FF	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	2.15 +/- 0.02	2.15 +/- 0.02	2.15 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25	23	20
Elongation*	ASTM D 4894	%	280	250	240
Bulk Density	ASTM D 4894	g/l	-	600	680
Hardness	NEEDLE	Shore D	54-59	54-59	54-59
Diametric Shrinkage	INTERNAL	%	3.0 +/- 0.5	3.0 +/- 0.5	3.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400-700	400-600

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This compound is used against aggressive and corrosive agents. It is used in hot water and steam application. It has a good heat conductivity. It has permission for usage in food application. The wear characteristics approximately 5 times better than virgin PTFE. Low coefficient of friction compared to GL/CAR/BZ compounds. Low abrasion when used against soft metals counterparts. Low hardness compared to standard compounds as GL/CAR/BZ etc.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	23	20	18	16
Elongation*	ASTM D 4894	%	250	200	180	140
Bulk Density	ASTM D 4894	g/l	-	600	700	650
Hardness	NEEDLE	Shore D	60 - 63	60 - 63	60 - 63	60 - 63
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3	4
Flow stability	INTERNAL	Sec/50 g	-	4	3	4
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

This compound is used against aggressive and corrosive agents. It is used in hot water and steam application. It has a good heat conductivity. It has permission for usage in food application. The wear characteristics approximately 5 times better than virgin PTFE. Low coefficient of friction compared to GL/CAR/BZ compounds. Low abrasion when used against soft metals counterparts. Low hardness compared to standard compounds as GL/CAR/BZ etc.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 BZ

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE
25% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,65 +/- 0,05
Tensile Strenght*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	300
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	62 - 58
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-450 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE
40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	3.10+/-0.05	3.10+/-0.05	3.10+/-0.05	3.10+/-0.05
Tensile Strenght*	ASTM D 4894	Mpa	26	24	22	20
Elongation*	ASTM D 4894	%	280	250	240	200
Bulk Density	ASTM D 4894	g/l	-	980	1000	950
Hardness	NEEDLE	Shore D	68 - 64	68 - 64	68 - 64	68 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5	2.5 +/- 0.5	-
Flow	INTERNAL	Sec/50 g	-	4	3	4
Flow stability	INTERNAL	Sec/50 g	-	4	3	4
Average particle size	ISO 13320	µm	-	400-700	400-600	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ GREEN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE

40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT + SPECIAL PIGMENT CONFORM TO RoHS EUROPEAN DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	3,10+/-0,05	3,10+/-0,05	3,10+/-0,05
Tensile Strenght*	ASTM D 4894	Mpa	25	22	20
Elongation*	ASTM D 4894	%	270	240	230
Bulk Density	ASTM D 4894	g/l	-	980	1000
Hardness	NEEDLE	Shore D	68 - 64	68 - 64	68 - 64
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0,5	2,5 +/- 0,5	-
Flow	INTERNAL	Sec/50 g	-	4	3
Flow stability	INTERNAL	Sec/50 g	-	4	3
Average particle size	ISO 13320	µm	-	400-700	400-600

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ OXD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE
40% +/- 2 OXIDANT IRREGULAR BRONZE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3.10+/-0.05
Tensile Strenght*	ASTM D 4894	Mpa	26
Elongation*	ASTM D 4894	%	280
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	68 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ GREEN OXD

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE
40% +/- 2 OXIDANT IRREGULAR BRONZE POWDER + SPECIAL GREEN PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3.10+/-0.05
Tensile Strenght*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	68 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ VE

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE

40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT + SPECIAL PIGMENT CONFORM TO RoHS EUROPEAN DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	3.10+/-0.05	3.10+/-0.05
Tensile Strength*	ASTM D 4894	Mpa	25	22
Elongation*	ASTM D 4894	%	270	240
Bulk Density	ASTM D 4894	g/l	-	980
Hardness	NEEDLE	Shore D	68 - 64	68 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/BZ GREEN SPECIAL BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

58% VIRGIN PTFE (with a special granulometry distribution)
42% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT + SPECIAL PIGMENT CONFORM TO RoHS EUROPEAN DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3.20 ⁺ /-0.03
Tensile Strenght*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	200
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	67 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-450 Kg/cm ²	With a very low speed of pressure
MAX SINTERING TEMPERATURE:	365-370°C	

Specific application:

This compound is studied for preformed "Big Billets".

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/COMP T 46

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

60% VIRGIN PTFE

40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT + SPECIAL PIGMENT CONFORM TO RoHS EUROPEAN DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	3,10+/-0,05	3,10+/-0,05	3,10+/-0,05
Tensile Strength*	ASTM D 4894	Mpa	25	22	20
Elongation*	ASTM D 4894	%	270	240	200
Bulk Density	ASTM D 4894	g/l	-	980	950
Hardness	NEEDLE	Shore D	68 - 64	68 - 64	68 - 64
Diametric Shrinkage	INTERNAL	%	2,5 +/- 0,5	2,5 +/- 0,5	-
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	400-700	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ 5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

55% VIRGIN PTFE
40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
5% +/- 0,5 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	3,10 +/-0,1	3,10 +/-0,1
Tensile Strength*	ASTM D 4894	Mpa	25	20
Elongation*	ASTM D 4894	%	240	150
Bulk Density	ASTM D 4894	g/l	-	850-950
Hardness	NEEDLE	Shore D	68 - 64	68 - 64
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370°C

General application:

In this compound graphite presence reduces friction and abrasion of the metal counterpart.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ 1 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

59% VIRGIN PTFE
40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
1% +/- 0,1 MOLIBDENUM DISULPHIDE (MoS₂)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	3.08 +/- 0.03	3.08 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	25	22
Elongation*	ASTM D 4894	%	280	250
Bulk Density	ASTM D 4894	g/l	-	1000
Hardness	NEEDLE	Shore D	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370°C

General application:

Sealing for automatic gear boxes. This compound has the highest pressure resistance and the lowest abrasion of seals and counterparts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ 1 MOS GREEN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

59% VIRGIN PTFE

40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT + SPECIAL PIGMENT CONFORM TO RoHS EUROPEAN DIRECTIVE

1% +/- 0,1 MOLIBDENUM DISULPHIDE (MoS₂)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3.08 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	270
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	66 - 63
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Sealing for automatic gear boxes. This compound has the highest pressure resistance and the lowest abrasion of seals and counterparts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ 3 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

57% VIRGIN PTFE
40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
3% +/- 0,3 MOLIBDENUM DISULPHIDE (MoS₂)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	3,16 +/- 0,03	3,16 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	25	23
Elongation*	ASTM D 4894	%	220	210
Bulk Density	ASTM D 4894	g/l	-	950
Hardness	NEEDLE	Shore D	63 - 60	63 - 60
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370°C

General application:

Sealing for automatic gear boxes. This compound has the highest pressure resistance and the lowest abrasion of seals and counterparts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ 5 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

55% VIRGIN PTFE
40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
5% +/- 0,5 MOLIBDENUM DISULPHIDE (MoS₂)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	3,16 +/- 0,03	3,16 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	22	20
Elongation*	ASTM D 4894	%	220	200
Bulk Density	ASTM D 4894	g/l	-	950
Hardness	NEEDLE	Shore D	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Sealing for automatic gear boxes. This compound has the highest pressure resistance and the lowest abrasion of seals and counterparts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/40 BZ 5 MOS GREEN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

55% VIRGIN PTFE

40% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT + SPECIAL PIGMENT CONMFORM TO RoHs EUROPEAN DIRECTIVE

5% +/- 0,5 MOLIBDENUM DISULPHIDE (MoS₂)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	3,16 +/- 0,03	3,16 +/- 0,03
Tensile Strenght*	ASTM D 4894	Mpa	22	20
Elongation*	ASTM D 4894	%	220	200
Bulk Density	ASTM D 4894	g/l	-	950
Hardness	NEEDLE	Shore D	66 - 63	66 - 63
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Sealing for automatic gear boxes. This compound has the highest pressure resistance and the lowest abrasion of seals and counterparts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/50 BZ 7,5 GL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

42,5% VIRGIN PTFE
50% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
7,5% +/- 0,5 GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3,46 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	200
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	70 - 65
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/55 BZ 5 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

40% VIRGIN PTFE
55% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
5% +/- 0,5 GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3.65+/-0.04
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	180
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	70 - 65
Diametric Shrinkage	INTERNAL	%	2.0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

In this compound graphite presence reduces friction and abrasion of the metal counterpart

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/55 BZ 5 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

45% VIRGIN PTFE
55% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT
5% +/- 0,5 MOLIBDENUM DISULPHIDE (MoS₂)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	3,85 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	130
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	72 - 68
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Sealing for automatic gear boxes. This compound has the highest pressure resistance and the lowest abrasion of seals and counterparts.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/60 BZ

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

40% VIRGIN PTFE
60% +/- 2 IRREGULAR BRONZE POWDER ANTI-OXIDANT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE E
Specific gravity	ASTM D 4894	g/cm ³	3,9 +/- 0,1	3,9 +/- 0,1	3,9 +/- 0,1
Tensile Strength*	ASTM D 4894	Mpa	22	20	14
Elongation*	ASTM D 4894	%	200	180	130
Bulk Density	ASTM D 4894	g/l	-	1300	1300
Hardness	NEEDLE	Shore D	70 - 66	70 - 66	70 - 66
Diametric Shrinkage	INTERNAL	%	2,0 +/- 0,4	2,0 +/- 0,4	-
Flow	INTERNAL	Sec/50 g	-	3	6
Flow stability	INTERNAL	Sec/50 g	-	3	6
Average particle size	ISO 13320	µm	-	700 - 400	800 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Generally recommended as a good bearing material and preferable to glass fibre either at higher speeds, where its greater thermal conductivity is used.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/0,1 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

99,9 % VIRGIN PTFE
0,1% +/- 0,02 MoS₂ MOLYBDENUM DISULFIDE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.18 +/- 0.02	2.18 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	26
Elongation*	ASTM D 4894	%	330	300
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	58 - 54	58 - 54
Diametric Shrinkage	INTERNAL	%	2.8 +/- 0.5	2.8 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

This compound has low friction coefficient and good wear properties already at low filler content.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/0,2 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

99,8 % VIRGIN PTFE
0,2%+/-0,02 MoS₂ MOLYBDENUM DISULFIDE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.18 +/- 0.02	2.18 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	26
Elongation*	ASTM D 4894	%	330	300
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	58 - 54	58 - 54
Diametric Shrinkage	INTERNAL	%	2.8 +/- 0.5	2.8 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

This compound has low friction coefficient and good wear properties already at low filler content.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/0,3 MOS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

99,7 % VIRGIN PTFE
0,3%+/-0,02 MoS₂ MOLYBDENUM DISULFIDE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.18 +/- 0.02	2.18 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	26
Elongation*	ASTM D 4894	%	320	290
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	58 - 54	58 - 54
Diametric Shrinkage	INTERNAL	%	2.8 +/- 0.5	2.8 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

GENERAL APPLICATION:

This compound has low friction coefficient and good wear properties already at low filler content.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/1,2 CSC

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

98 % VIRGIN PTFE
2% +/- 0,2 SPECIAL FILLER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.03	2.16 +/- 0.03	2.16 +/- 0.03	2.16 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	30	28	26	24
Elongation*	ASTM D 4894	%	280	260	240	220
Bulk Density	ASTM D 4894	g/l	-	600- 700	750	600-700
Hardness	NEEDLE	Shore D	60 - 55	60 - 55	60 - 55	60-55
Diametric Shrinkage	INTERNAL	%	3.5 +/- 0.5	3.5 +/- 0.5	3 +/- 1	-
Flow	INTERNAL	Sec/50 g	-	4	3	4
Flow stability	INTERNAL	Sec/50 g	-	4	3	4
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

CONDUCTIVE PROPERTIES: ASTM D257

SURFACE RESISTIVITY: < 1000 OHM/SQ

VOLUME RESISTIVITY: < 500 OHM/SQ

GENERAL APPLICATION:

Electrical conductive with low filler content.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/1,2 CSC FDA

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

98 % VIRGIN PTFE

2% +/-0,2 SPECIAL FILLER FDA APPROVED

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE FF HD	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.03	2.16 +/- 0.03	2.16 +/- 0.03	2.16 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	30	28	26	24
Elongation*	ASTM D 4894	%	280	260	240	220
Bulk Density	ASTM D 4894	g/l	-	600- 700	750	600-700
Hardness	NEEDLE	Shore D	60 - 55	60 - 55	60 - 55	60-55
Diametric Shrinkage	INTERNAL	%	3.5 +/- 0.5	3.5 +/- 0.5	3 +/- 1	-
Flow	INTERNAL	Sec/50 g	-	4	3	4
Flow stability	INTERNAL	Sec/50 g	-	4	3	4
Average particle size	ISO 13320	µm	-	400 - 700	400 - 600	400-700

* cross direction

RECOMMENDED MOULDING PRESSURE:
MAX SINTERING TEMPERATURE:

300-350 Kg/cm²
370-375°C

CONDUCTIVE PROPERTIES: ASTM D257

SURFACE RESISTIVITY: < 1500 OHM/SQ

VOLUME RESISTIVITY: < 700 OHM/SQ

GENERAL APPLICATION:

Electrical conductive with low filler content. This compound is FDA approved for food application.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/1,2 CSC MD FDA

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

98 % VIRGIN MODIFIED PTFE
2% +/-0,2 SPECIAL FILLER FDA APPROVED

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	28
Elongation*	ASTM D 4894	%	330
Bulk Density	ASTM D 4894	g/l	650 - 750
Hardness	NEEDLE	Shore D	60 - 55
Diametric Shrinkage	INTERNAL	%	4 +/- 0.5
Flow	INTERNAL	Sec/50 g	4
Flow stability	INTERNAL	Sec/50 g	4
Average particle size	ISO 13320	µm	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

CONDUCTIVE PROPERTIES: ASTM D257

SURFACE RESISTIVITY: < 1500 OHM/SQ

VOLUME RESISTIVITY: < 700 OHM/SQ

GENERAL APPLICATION:

Electrical conductive with low filler content. This compound is FDA approved for food application.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 RJ

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 POLYIMIDE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	1,95 +/- 0,03	11,95 +/- 0,03
Tensile Strenght*	ASTM D 4894	Mpa	25	20
Elongation*	ASTM D 4894	%	270	210
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	64 - 61	64 - 61
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	500 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Compressor parts, piston and rider rings in bone dry applications, dynamic seals in air components. This compound has a very low friction coefficient.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 RJ

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 POLYIMIDE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	1,87 +/- 0,03	1,87 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	20	18
Elongation*	ASTM D 4894	%	240	210
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	64 - 61	64 - 61
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	5
Flow stability	INTERNAL	Sec/50 g	-	5
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Compressor parts, piston and rider rings in bone dry applications, dynamic seals in air components. This compound has a very low friction coefficient.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 RJ BIL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 POLYIMIDE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	1,87 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	240
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	64 - 61
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	355-360 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

Compressor parts, piston and rider rings in bone dry applications, dynamic seals in air components. This compound has a very low friction coefficient. For big billets application.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 CF (Type Pitch)

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 CARBON FIBRE (Type Pitch)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03	2.09 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	25	20
Elongation*	ASTM D 4894	%	270	230
Bulk Density	ASTM D 4894	g/l	-	700
Hardness	NEEDLE	Shore D	65 - 60	65 - 60
Diametric Shrinkage	INTERNAL	%	2.2 +/- 0.6	2.2 +/- 0.6
Flow	INTERNAL	Sec/50 g	-	3
Flow stability	INTERNAL	Sec/50 g	-	3
Average particle size	ISO 13320	µm	-	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Minimum abrasion at the counterpart surface when using soft metal (ex. Hard aluminium) This product tested with other 70 different compound types has been found to be the only grade released for serial use.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 CF (Type PAN)

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 CARBON FIBRE (Type PAN)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE FF HDS	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2.09 +/- 0.03	2.09 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	18	16
Elongation*	ASTM D 4894	%	200	180
Bulk Density	ASTM D 4894	g/l	650	600
Hardness	NEEDLE	Shore D	65 - 60	65 - 60
Diametric Shrinkage	INTERNAL	%	-	-
Flow	INTERNAL	Sec/50 g	3	4
Flow stability	INTERNAL	Sec/50 g	3	4
Average particle size	ISO 13320	µm	600 - 400	700 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Minimum abrasion at the counterpart surface when using soft metal (ex. Hard aluminium) This product tested with other 70 different compound types has been found to be the only grade released for serial use.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 EK

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 AROMATIC POLYESTER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	2.07 +/- 0.02	2.07 +/- 0.02
Tensile Strenght*	ASTM D 4894	Mpa	24	22
Elongation*	ASTM D 4894	%	300	250
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	62 - 58	62 - 58
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	3
Flow stability	INTERNAL	Sec/50 g	-	3
Average particle size	ISO 13320	µm	-	500 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Low abrasion at the counterpart surface of soft metal (ex. Aluminium). It is a compound suitable for high speed rotating radial sealing. It has a high temperature resistance (higher than 300 °C). It has a great dimensional stability at high temperatures.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/EK S

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

87% VIRGIN PTFE
13% +/- 1 AROMATIC POLYESTER + SPECIAL ADDITIVE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.04 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	24
Elongation*	ASTM D 4894	%	280
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	62 - 58
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Low abrasion at the counterpart surface of soft metal (ex. Aluminium). It is a compound suitable for high speed rotating radial sealing. It has a high temperature resistance (higher than 300 °C). It has a great dimensional stability at high temperatures. It is FDA approval.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 GR

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 SPECIAL GRAPHITE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HD
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	30	26
Elongation*	ASTM D 4894	%	280	260
Bulk Density	ASTM D 4894	g/l	-	700
Hardness	NEEDLE	Shore D	65 - 60	65 - 60
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	3
Flow stability	INTERNAL	Sec/50 g	-	3
Average particle size	ISO 13320	µm	-	600 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Minimum abrasion at the counterpart surface when using soft metal (ex. Hard aluminium) This product tested with other 70 different compound types has been found to be the only grade released for serial use.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/10 PPS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

90% VIRGIN PTFE
10% +/- 1 PPS POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	2.05 +/- 0.05	2.05 +/- 0.05
Tensile Strength*	ASTM D 4894	Mpa	25	20
Elongation*	ASTM D 4894	%	260	240
Bulk Density	ASTM D 4894	g/l	-	650
Hardness	NEEDLE	Shore D	62 - 57	62 - 57
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0.5	3,0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	600 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 ° C

General application:

Compressor parts, piston and rider rings in bone dry applications, dynamic seals in air components. This compound has a very low friction coefficient.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 PPS

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
20% +/- 1 PPS POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	1,95 +/- 0.05
Tensile Strength*	ASTM D 4894	Mpa	30
Elongation*	ASTM D 4894	%	240
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	63 - 57
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-450 Kg/cm ²
MAX SINTERING TEMPERATURE:	360-365 °C

General application:

Compressor parts, piston and rider rings in bone dry applications, dynamic seals in air components. This compound has a very low friction coefficient.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 AL

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 Al₂O₃ (99,9% pure)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.25 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25
Elongation*	ASTM D 4894	%	300
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	63 - 60
Diametric Shrinkage	INTERNAL	%	4,2 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 CER

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 CERAMIC POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.12 +/- 0.03
Tensile Strength*	ASTM D 4894	Mpa	23
Elongation*	ASTM D 4894	%	230
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	58 - 63
Diametric Shrinkage	INTERNAL	%	3.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-500 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 ° C

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 GR V

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 SPECIAL GRAPHITE

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.16 +/- 0.02	2.16 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	25	23
Elongation*	ASTM D 4894	%	270	230
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	60 - 63	60 - 63
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	600 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Minimum abrasion at the counterpart surface when using soft metal (ex. Hard aluminium) This product tested with other 70 different compound types has been found to be the only grade released for serial use.

This compound is used against aggressive and corrosive agents. It is used in hot water and steam application. It has a good heat conductivity. It has permission for usage in food application. The wear characteristics approximately 5 times better than virgin PTFE. Low coefficient of friction compared to GL/CAR/BZ compounds. Low abrasion when used against soft metals counterparts. Low hardness compared to standard compounds as GL/CAR/BZ etc.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/15 PEEK

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

85% VIRGIN PTFE
15% +/- 1 PEEK POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF HDS
Specific gravity	ASTM D 4894	g/cm ³	1,95 +/- 0,05	1,95 +/- 0,05
Tensile Strength*	ASTM D 4894	Mpa	24	20
Elongation*	ASTM D 4894	%	250	200
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	66 - 61	66 - 61
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	3
Flow stability	INTERNAL	Sec/50 g	-	3
Average particle size	ISO 13320	µm	-	500 - 600

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Compressor parts, piston and rider rings in bone dry applications, dynamic seals in air components. This compound has a very low friction coefficient.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 PEEK

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
20% +/- 2 PEEK POWDER

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	1,92 +/- 0,03	1,92 +/- 0,03
Tensile Strength*	ASTM D 4894	Mpa	24	20
Elongation*	ASTM D 4894	%	230	200
Bulk Density	ASTM D 4894	g/l	-	550
Hardness	NEEDLE	Shore D	66 - 61	66 - 61
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	500 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	450-450 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/20 CAF BROWN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

80% VIRGIN PTFE
20% +/- 2 Calcium Fluoride (CaF₂) + special pigment

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2.25 +/- 0.02	2.25 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	20	18
Elongation*	ASTM D 4894	%	250	220
Bulk Density	ASTM D 4894	g/l	-	600
Hardness	NEEDLE	Shore D	62 - 64	62 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	400 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-400 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

High voltage insulators and the highest dielectric strength for SF-6-switches.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/25 CAF BROWN

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

75% VIRGIN PTFE

25% +/- 2 Calcium Fluoride (CaF₂) + special pigment in accordance to the European RoHs directive

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2.30 +/- 0.02
Tensile Strength*	ASTM D 4894	Mpa	20
Elongation*	ASTM D 4894	%	220
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	62 - 64
Diametric Shrinkage	INTERNAL	%	2.5 +/- 0.5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	350-450 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

High voltage insulators and the highest dielectric strength for SF-6-switches.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/50 INOX

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

50% VIRGIN PTFE

50% +/- 2 STAINLESS STEEL POWDER 316 L

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	3.35 +/- 0.05	3.35 +/- 0.05	3.35 +/- 0.05
Tensile Strength*	ASTM D 4894	Mpa	22	20	18
Elongation*	ASTM D 4894	%	230	200	180
Bulk Density	ASTM D 4894	g/l	-	1000	1000
Hardness	NEEDLE	Shore D	69 - 65	69 - 65	69 - 65
Diametric Shrinkage	INTERNAL	%	2.3 +/- 0.5	2.3 +/- 0.5	2.3 +/- 0.5
Flow	INTERNAL	Sec/50 g	-	4	6
Flow stability	INTERNAL	Sec/50 g	-	4	6
Average particle size	ISO 13320	µm	-	700 - 400	800 - 400

* cross direction

RECOMMENDED MOULDING PRESSURE:	400-600 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Usage in steam-valves, ball-seats. Not for radiation applications in reactor plants. Only for low speed applications and static seals.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/BLU

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35	32
Elongation*	ASTM D 4894	%	340	320
Bulk Density	ASTM D 4894	g/l	-	600 - 650
Hardness	NEEDLE	Shore D	54 - 60	60 - 54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	600 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/BLU 2

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE FF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35	32
Elongation*	ASTM D 4894	%	340	320
Bulk Density	ASTM D 4894	g/l	-	600 - 650
Hardness	NEEDLE	Shore D	54 - 60	60 - 54
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	4
Flow stability	INTERNAL	Sec/50 g	-	4
Average particle size	ISO 13320	µm	-	600 - 700

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/BLU BIL 5

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	340
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	54 - 60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-300 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

Specific application:

This compound is studied for preformed "Big Billets".

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical Information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/ MD BLU

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN MODIFIED PTFE + BLU SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF	GRADE EH
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35	35
Elongation*	ASTM D 4894	%	400	360
Bulk Density	ASTM D 4894	g/l	-	500 - 700
Hardness	NEEDLE	Shore D	54 - 60	54 - 60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-	-
Flow stability	INTERNAL	Sec/50 g	-	-
Average particle size	ISO 13320	µm	-	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	250-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	365-370 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/BLACK

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	340
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	54 - 60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/RED

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	340
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	54 - 60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/RED 1

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	340
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	54 - 60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified

TECHNICAL DATASHEET

P/YELLOW 1

COMPOSITION BY WEIGHT % & FILLER DESCRIPTION

100% VIRGIN PTFE + SPECIAL PIGMENT

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE NFF
Specific gravity	ASTM D 4894	g/cm ³	2,17 +/- 0,02
Tensile Strenght*	ASTM D 4894	Mpa	35
Elongation*	ASTM D 4894	%	340
Bulk Density	ASTM D 4894	g/l	-
Hardness	NEEDLE	Shore D	54 - 60
Diametric Shrinkage	INTERNAL	%	3,0 +/- 0,5
Flow	INTERNAL	Sec/50 g	-
Flow stability	INTERNAL	Sec/50 g	-
Average particle size	ISO 13320	µm	-

* cross direction

RECOMMENDED MOULDING PRESSURE:	300-350 Kg/cm ²
MAX SINTERING TEMPERATURE:	370-375 °C

General application:

Typically properties and application of PTFE as piping, vessels, seals and gaskets.

Safety- Toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product Material Safety Data Sheet.

Technical information

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot assume liability in connection with the final use or transformation of the products described in this TDS. None of this information is to be taken as a licence to operate under, in order to infringe any patents.

ISO 9001:2008 Certified