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M81

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.02
Tensile strength*	ASTM D-4894	MPa	≥27.5
Elongation at break*	ASTM D-4894	%	≥290
Bulk Density	ASTM D-4894	g/L	≥820
Hardness	NEEDLE	Shore D	56-50
Diametric Shrinkage	INTERNAL	%	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5
Average Particle Size	ASTM D4894	μm	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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M851

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100% VIRGIN PTFE

MECHANICAL PROPERTIES	**TEST METHOD**	**Units**	**Grade FF**
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.02
Tensile strength*	ASTM D-4894	MPa	≥27.5
Elongation at break*	ASTM D-4894	%	≥290
Bulk Density	ASTM D-4894	g/L	⩾850
Hardness	NEEDLE	Shore D	56-50
Diametric Shrinkage	INTERNAL	%	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5
Average Particle Size	ASTM D4894	μm	300±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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M81/MF

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100%　MODIFIED VIRGIN PTFE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.16±0.02
Tensile strength*	ASTM D-4894	MPa	≥28
Elongation at break*	ASTM D-4894	%	≥380
Bulk Density	ASTM D-4894	g/L	800±100
Hardness	NEEDLE	Shore D	60-55
Diametric Shrinkage	INTERNAL	%	3.0±0.5
Flow	INTERNAL	Sec/120g	≤5
Average Particle Size	ASTM D4894	μm	550±100

*****Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	300-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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10GL

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

90% VIRGIN PTFE
10%±1%GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.20±0.03	2.20±0.03
Tensile strength*	ASTM D-4894	MPa	≥25	≥22
Elongation at break*	ASTM D-4894	%	≥270	≥250
Bulk Density	ASTM D-4894	g/L	/	780±50
Hardness	NEEDLE	Shore D	58-53	58-53
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15GL

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
15%±1%GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.21±0.03	2.21±0.03
Tensile strength*	ASTM D-4894	MPa	≥22	≥15
Elongation at break*	ASTM D-4894	%	≥250	≥220
Bulk Density	ASTM D-4894	g/L	/	780±50
Hardness	NEEDLE	Shore D	63-58	63-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20GL

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
20%±1%GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.22±0.03	2.22±0.03
Tensile strength*	ASTM D-4894	MPa	≥15	≥10
Elongation at break*	ASTM D-4894	%	≥200	≥150
Bulk Density	ASTM D-4894	g/L	/	780±50
Hardness	NEEDLE	Shore D	63-58	63-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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25GL

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

75% VIRGIN PTFE
25%±1%GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.24±0.03	2.24±0.03	2.24±0.03
Tensile strength*	ASTM D-4894	MPa	≥15	≥10	≥10
Elongation at break*	ASTM D-4894	%	≥180	≥120	≥120
Bulk Density	ASTM D-4894	g/L	/	780±50	780±50
Hardness	NEEDLE	Shore D	58-53	58-53	58-53
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5	≤5
Average Particle Size	ASTM D4894	μm	/	550±100	400-700

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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30GL

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

70% VIRGIN PTFE
30%±1%GLASS FIBRE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.26±0.03
Tensile strength*	ASTM D-4894	MPa	≥14
Elongation at break*	ASTM D-4894	%	≥170
Bulk Density	ASTM D-4894	g/L	/
Hardness	NEEDLE	Shore D	65-60
Diametric Shrinkage	INTERNAL	%	2.0±0.5
Flow	INTERNAL	Sec/120g	/
Average Particle Size	ASTM D4894	μm	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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5CF (TYPE PAN)

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

95% VIRGIN PTFE
5%±1%CARBON FIBRE(TYPE PAN)

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.14±0.03	2.14±0.03
Tensile strength*	ASTM D-4894	MPa	≥22	≥25
Elongation at break*	ASTM D-4894	%	≥250	≥270
Bulk Density	ASTM D-4894	g/L	780±50	/
Hardness	NEEDLE	Shore D	56-52	56-52
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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10CF (TYPE PAN)

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

90% VIRGIN PTFE
10%±1%CARBON FIBRE(TYPE PAN)

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.10±0.05	2.10±0.05
Tensile strength*	ASTM D-4894	MPa	≥16	≥18
Elongation at break*	ASTM D-4894	%	≥130	≥150
Bulk Density	ASTM D-4894	g/L	780±50	/
Hardness	NEEDLE	Shore D	65-60	65-60
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15CF (TYPE PAN)

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
15%±1%CARBON FIBRE(TYPE PAN)

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.10±0.05	2.10±0.05
Tensile strength*	ASTM D-4894	MPa	≥12	≥14
Elongation at break*	ASTM D-4894	%	≥120	≥150
Bulk Density	ASTM D-4894	g/L	680±50	/
Hardness	NEEDLE	Shore D	60-55	60-55
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15BR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
15±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D 792	g/cm³	2.45±0.05	2.45±0.05
Tensile strength*	ASTM D-4745	MPa	≥26	≥22
Elongation at break*	ASTM D-4745	%	≥250	≥210
Bulk Density	ASTM D-4894	g/L	/	900±100
Hardness	ASTM D2240	Shore D	68-63	68-63
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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40BR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

60% VIRGIN PTFE
40±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D 792	g/cm³	3.10±0.05	3.10±0.05
Tensile strength*	ASTM D-4745	MPa	≥22	≥18
Elongation at break*	ASTM D-4745	%	≥250	≥210
Bulk Density	ASTM D-4894	g/L	/	1000±100
Hardness	ASTM D2240	Shore D	68-63	68-63
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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60BR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

40% VIRGIN PTFE
60±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D 792	g/cm³	3.9±0.1	3.9±0.1
Tensile strength*	ASTM D-4745	MPa	≥15	≥12
Elongation at break*	ASTM D-4745	%	≥220	≥200
Bulk Density	ASTM D-4894	g/L	/	1300±100
Hardness	ASTM D2240	Shore D	68-63	68-63
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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35BR5GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

60% VIRGIN PTFE
35±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT
5%±0.5% GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.95±0.1	2.95±0.1
Tensile strength*	ASTM D-4894	MPa	≥12	≥16
Elongation at break*	ASTM D-4894	%	≥150	≥180
Bulk Density	ASTM D-4894	g/L	1000±100	/
Hardness	NEEDLE	Shore D	63-58	63-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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30BR10CF

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

60% VIRGIN PTFE
30±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT
10%±1%CARBON FIBRE(TYPE PAN)

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.65±0.05	2.65±0.05
Tensile strength*	ASTM D-4894	MPa	≥12	≥16
Elongation at break*	ASTM D-4894	%	≥120	≥150
Bulk Density	ASTM D-4894	g/L	900±50	/
Hardness	NEEDLE	Shore D	60-56	60-56
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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30BR10GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

60% VIRGIN PTFE
30±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT
10±1%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.75±0.1	2.75±0.1
Tensile strength*	ASTM D-4894	MPa	≥10	≥12
Elongation at break*	ASTM D-4894	%	≥10	≥40
Bulk Density	ASTM D-4894	g/L	900±100	/
Hardness	NEEDLE	Shore D	65-59	65-59
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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40BR5CAR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

55% VIRGIN PTFE
40±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT
5%±0.5%CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	3.00±0.1	3.00±0.1
Tensile strength*	ASTM D-4894	MPa	≥10	≥12
Elongation at break*	ASTM D-4894	%	≥100	≥150
Bulk Density	ASTM D-4894	g/L	950±100	/
Hardness	NEEDLE	Shore D	65-58	65-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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10GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

90% VIRGIN PTFE
10±1%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.05	2.15±0.05
Tensile strength*	ASTM D-4894	MPa	≥18	≥20
Elongation at break*	ASTM D-4894	%	≥200	≥230
Bulk Density	ASTM D-4894	g/L	700±50	/
Hardness	NEEDLE	Shore D	58-53	58-53
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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ORIENTALFLON
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15GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
15±1%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.05	2.15±0.05
Tensile strength*	ASTM D-4894	MPa	≥14	≥15
Elongation at break*	ASTM D-4894	%	≥160	≥180
Bulk Density	ASTM D-4894	g/L	700±50	/
Hardness	NEEDLE	Shore D	58-53	58-53
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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25GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

75% VIRGIN PTFE
25±1%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.05	2.15±0.05
Tensile strength*	ASTM D-4894	MPa	≥10	≥12
Elongation at break*	ASTM D-4894	%	≥20	≥40
Bulk Density	ASTM D-4894	g/L	750±50	/
Hardness	NEEDLE	Shore D	62-58	62-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15CAR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
15±1%CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.10±0.05	2.10±0.05
Tensile strength*	ASTM D-4894	MPa	≥16	≥18
Elongation at break*	ASTM D-4894	%	≥180	≥200
Bulk Density	ASTM D-4894	g/L	750±50	/
Hardness	NEEDLE	Shore D	61-56	61-56
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	500±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-450kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20CAR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
20±1%CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.10±0.05	2.10±0.05
Tensile strength*	ASTM D-4894	MPa	≥14	≥16
Elongation at break*	ASTM D-4894	%	≥100	≥180
Bulk Density	ASTM D-4894	g/L	750±50	/
Hardness	NEEDLE	Shore D	61-56	61-56
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	500±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-450kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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25CAR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

75% VIRGIN PTFE
25±1%CARBON COKE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.09±0.03	2.09±0.03
Tensile strength*	ASTM D-4894	MPa	≥15	≥12
Elongation at break*	ASTM D-4894	%	≥120	≥40
Bulk Density	ASTM D-4894	g/L	/	700±50
Hardness	NEEDLE	Shore D	68-63	68-63
Diametric Shrinkage	INTERNAL	%	1.5±0.5	1.5±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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13CAR2GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
13±1%CARBON COKE
2%±0.5%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.10±0.05	2.10±0.05
Tensile strength*	ASTM D-4894	MPa	≥16	≥18
Elongation at break*	ASTM D-4894	%	≥180	≥200
Bulk Density	ASTM D-4894	g/L	750±50	/
Hardness	NEEDLE	Shore D	61-56	61-56
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-450kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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23CAR2GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

75% VIRGIN PTFE
23±1%CARBON COKE
2%±0.5%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.08±0.05	2.08±0.05
Tensile strength*	ASTM D-4894	MPa	≥10	≥12
Elongation at break*	ASTM D-4894	%	≥40	≥100
Bulk Density	ASTM D-4894	g/L	700±50	/
Hardness	NEEDLE	Shore D	61-56	61-56
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

******Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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5GL5M

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

90% VIRGIN PTFE
5%±1%GLASS FIBRE
5%±0.5%MOLYBDENUM DISULFIDE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.22±0.02	2.22±0.02
Tensile strength*	ASTM D-4894	MPa	≥20	≥22
Elongation at break*	ASTM D-4894	%	≥240	≥260
Bulk Density	ASTM D-4894	g/L	780-870	/
Hardness	NEEDLE	Shore D	58-54	58-54
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15GL5M

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
15%±1%GLASS FIBRE
5%±0.5%MOLYBDENUM DISULFIDE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.27±0.05	2.27±0.05
Tensile strength*	ASTM D-4894	MPa	≥16	≥20
Elongation at break*	ASTM D-4894	%	≥220	≥260
Bulk Density	ASTM D-4894	g/L	750±50	/
Hardness	NEEDLE	Shore D	58-54	58-54
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15GL5GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
15%±1%GLASS FIBRE
5%±0.5%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.20±0.05	2.20±0.05
Tensile strength*	ASTM D-4894	MPa	≥16	≥20
Elongation at break*	ASTM D-4894	%	≥200	≥240
Bulk Density	ASTM D-4894	g/L	780±50	/
Hardness	NEEDLE	Shore D	65-59	65-59
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20GL5GR

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

75% VIRGIN PTFE
20%±1%GLASS FIBRE
5%±0.5%GRAPHITE POWDER

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.25±0.05	2.25±0.05
Tensile strength*	ASTM D-4894	MPa	≥14	≥18
Elongation at break*	ASTM D-4894	%	≥160	≥200
Bulk Density	ASTM D-4894	g/L	780±50	/
Hardness	NEEDLE	Shore D	65-59	65-59
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

*****Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20GL5M

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

75% VIRGIN PTFE
20%±1%GLASS FIBRE
5%±0.5%MOLYBDENUM DISULFIDE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.32±0.05	2.32±0.05
Tensile strength*	ASTM D-4894	MPa	≥14	≥18
Elongation at break*	ASTM D-4894	%	≥160	≥200
Bulk Density	ASTM D-4894	g/L	750±50	/
Hardness	NEEDLE	Shore D	58-54	58-54
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

*****Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20PEEK

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
20±1%PEEK

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	1.9±0.02	1.9±0.02
Tensile strength*	ASTM D-4894	MPa	≥12	≥15
Elongation at break*	ASTM D-4894	%	≥85	≥150
Bulk Density	ASTM D-4894	g/L	600±50	/
Hardness	NEEDLE	Shore D	65-58	65-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	400-500kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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10EK

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

90% VIRGIN PTFE
10±1%Ekonol

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.05±0.05	2.05±0.05
Tensile strength*	ASTM D-4894	MPa	≥22	≥18
Elongation at break*	ASTM D-4894	%	≥200	≥190
Bulk Density	ASTM D-4894	g/L	/	650±50
Hardness	NEEDLE	Shore D	60-55	60-55
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20EK

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
20±1%Ekonol

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	1.95±0.05
Tensile strength*	ASTM D-4894	MPa	≥12
Elongation at break*	ASTM D-4894	%	≥150
Bulk Density	ASTM D-4894	g/L	/
Hardness	NEEDLE	Shore D	60-55
Diametric Shrinkage	INTERNAL	%	2.0±0.5
Flow	INTERNAL	Sec/120g	/
Average Particle Size	ASTM D4894	μm	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15PI

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/cm³	1.95±0.03	1.95±0.03
Tensile strength*	ASTM D-4894	MPa	≥17	≥15
Elongation at break*	ASTM D-4894	%	≥250	≥220
Bulk Density	ASTM D-4894	g/L	/	650±50
Hardness	NEEDLE	Shore D	60-55	60-55
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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20PI

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

80% VIRGIN PTFE
20±1%POLYIMIDE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	1.90±0.03	1.90±0.03
Tensile strength*	ASTM D-4894	MPa	≥15	≥12
Elongation at break*	ASTM D-4894	%	≥220	≥180
Bulk Density	ASTM D-4894	g/L	/	650±50
Hardness	NEEDLE	Shore D	60-55	60-55
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm²
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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15GL GREEN

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

85% VIRGIN PTFE
15%±1%GLASS FIBRE +SPECIAL PIGMENT IN ACCORDANCE TO THE EUROPEAN RoHs DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D-4894	g/cm³	2.21±0.03	2.21±0.03
Tensile strength*	ASTM D-4894	MPa	≥22	≥15
Elongation at break*	ASTM D-4894	%	≥250	≥220
Bulk Density	ASTM D-4894	g/L	/	780±50
Hardness	NEEDLE	Shore D	63-58	63-58
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	350-400kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

GB/T19001-2008 idt ISO 9001:2008 Certified

ORIENTALFLON
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GOODFLON®

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TECHNICAL DATASHEET

40BR GREEN

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

60% VIRGIN PTFE
40±1%IRREGULAR BRONZE POWDER ANTI-OXIDANT +SPECIAL PIGMENT IN ACCORDANCE TO THE EUROPEAN RoHs DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade NFF	Grade FF
Specific Gravity	ASTM D 792	g/cm³	3.10±0.05	3.10±0.05
Tensile strength*	ASTM D-4745	MPa	≥22	≥18
Elongation at break*	ASTM D-4745	%	≥250	≥210
Bulk Density	ASTM D-4894	g/L	/	1000±100
Hardness	ASTM D2240	Shore D	68-63	68-63
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	/	≤5
Average Particle Size	ASTM D4894	μm	/	550±100

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	500-600kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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M81 BLACK

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100% VIRGIN PTFE+SPECIAL PIGMENT IN ACCORDANCE TO THE EUROPEAN RoHs DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.02	2.15±0.02
Tensile strength*	ASTM D-4894	MPa	≥27.5	≥27.5
Elongation at break*	ASTM D-4894	%	≥290	≥290
Bulk Density	ASTM D-4894	g/L	≥820	/
Hardness	NEEDLE	Shore D	56-50	56-50
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

*****Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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M81 GREEN

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100% VIRGIN PTFE+SPECIAL PIGMENT IN ACCORDANCE TO THE EUROPEAN RoHs DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.02	2.15±0.02
Tensile strength*	ASTM D-4894	MPa	≥27.5	≥27.5
Elongation at break*	ASTM D-4894	%	≥290	≥290
Bulk Density	ASTM D-4894	g/L	≥820	/
Hardness	NEEDLE	Shore D	56-50	56-50
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

**Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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M81 BLUE

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100% VIRGIN PTFE+SPECIAL PIGMENT IN ACCORDANCE TO THE EUROPEAN RoHs DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.02	2.15±0.02
Tensile strength*	ASTM D-4894	MPa	≥27.5	≥27.5
Elongation at break*	ASTM D-4894	%	≥290	≥290
Bulk Density	ASTM D-4894	g/L	≥820	/
Hardness	NEEDLE	Shore D	56-50	56-50
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

*****Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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M81 YELLOW

COMPOSITION BY WEIGHT%&FILLER DESCRIPTION

100% VIRGIN PTFE+SPECIAL PIGMENT IN ACCORDANCE TO THE EUROPEAN RoHs DIRECTIVE

MECHANICAL PROPERTIES	TEST METHOD	Units	Grade FF	Grade NFF
Specific Gravity	ASTM D-4894	g/cm³	2.15±0.02	2.15±0.02
Tensile strength*	ASTM D-4894	MPa	≥27.5	≥27.5
Elongation at break*	ASTM D-4894	%	≥290	≥290
Bulk Density	ASTM D-4894	g/L	≥820	/
Hardness	NEEDLE	Shore D	56-50	56-50
Diametric Shrinkage	INTERNAL	%	2.0±0.5	2.0±0.5
Flow	INTERNAL	Sec/120g	≤5	/
Average Particle Size	ASTM D4894	μm	550±100	/

*****Cross direction*

RECOMMENDED MOULDING PRESSURE :	300-350kg/cm2
MAX SINTERING TEMPERATURE:	370-375℃

Safety toxicology

This product is a fluoroplastic material .so normal precautions observed with fluoroplastics should be followed .

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