

Technical Data Sheet

❖ Alfater XL®

MOCOM

ALFATER XL A70I 4FT0000

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	natural color,bright inherent color,black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	high purity,low emission,good colorability,easy flow,good weathering resistance,good chemical resistance,good ozone reistance,good hot air resistance,good hydrolysis resistant
Market Segment	Automotive,electrical and electronic,Machinery
Application Area	injection moulded parts
Typical Applications	fuel cells,seals,sealing lip,plugs,functional components,cable ducts,2K components
Adhesion to	Polypropylene Homopolymer,Polypropylene Copolymer,Polyethylene,Thermoplastic Vulcanisate (PP+EPDM),Thermoplastic Olefin Elastomer,Thermoplastic Elastomer general

Pre-Drying Conditions	in a dry air (dessiccant) dryer 60-70 °C for 2-4 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 190-220 °C mould temperature 10-60 °C injection speed middle back pressure (hydraulic) >3 bar holding pressure 50-70% of injection pressure
Storage	dry, protected from light not above 30°C tightly sealed do not stack the pallets

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	2.7	MPa	ISO 37
Tensile Strength (Type 2)	4.5	MPa	ISO 37
Tear Strength (Method Ba)	27	kN/m	ISO 34-1
Elongation at Break (Type 2)	425	%	ISO 37
Shore Hardness A (15s)	70	-	ISO 868
Thermal Properties			
Compression Set (22h / 100°C / 25% / Type A)	60	%	ISO 815
Compression Set (22h / 70°C / 25% / Type A)	52	%	ISO 815
Compression Set (72h / 22°C / 25% / Type A)	38	%	ISO 815
Compression Set (72h / 125°C / 25% / Type A)	77	%	ISO 815

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Electrical Properties

Tracking Resistance (CTI)	600	-	IEC 60112
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Rheological Properties

Shrinkage (lengthwise, 24h)	1.7 - 2.1	%	ISO 294-4
Shrinkage (lateral, 24h)	1.1 - 1.5	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	75	cm	-

Physical Properties

Density	900	kg/m³	ISO 1183
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Ageing Properties

Ozone resistance (method A)	passed	-	ISO 1431-1A
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 650° C, 2.0mm)	passed	-	DIN EN 60695