

Technical Data Sheet - Preliminary Product

❖ Alfater XL®



ALFATER XL A40I 3EF0010

MOCOM

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	easy flow, high surface quality, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant
Market Segment	Automotive, building and construction, do-it-yourself, electrical and electronic, sport and leisure, Furniture
Application Area	injection moulded parts
Typical Applications	seals, sealing lip, handles, soft touch elements, impact protection / shock absorber, protection caps, thin walled parts, profile, 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 - high 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
Minimum Shelf Life	months <12

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	1.1	MPa	ISO 37
Tensile Strength (Type 2)	2.5	MPa	ISO 37
Tear Strength (Method Ba)	13	kN/m	ISO 34-1
Elongation at Break (Type 2)	325	%	ISO 37
Shore Hardness A (15s)	40	-	ISO 868
Thermal Properties			
Compression Set (22h / 100°C / 25% / Type A)	45	%	ISO 815
Compression Set (22h / 70°C / 25% / Type A)	30	%	ISO 815

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Compression Set (72h / 22 °C / 25% / Type A)	20	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	50	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112
Rheological Properties			
Spiral Flow (2 mm wall thickness)	40	cm	-
Physical Properties			
Density	950	kg/m ³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

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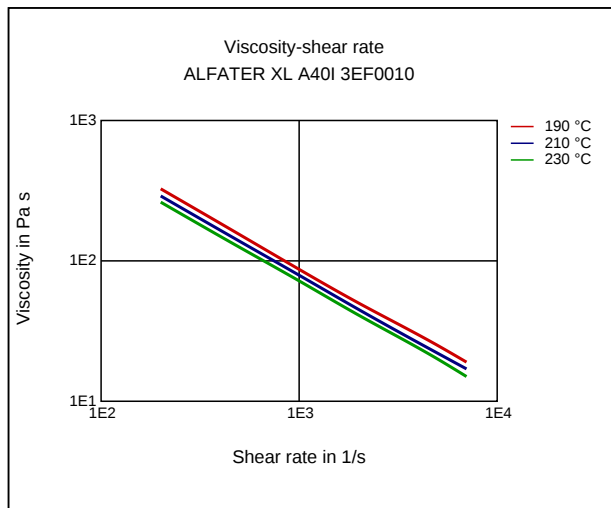
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Diagrams

Viscosity-shear rate



Specific volume-temperature (pvT)

