

Technical Data Sheet

❖ Alfater XL®



ALFATER XL A70I 4PA0010

MOCOM

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	natural color, bright inherent color, black, red
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	adhesion-modified to polyamide, easy flow, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant, black fulfills weathering dry, hot (Kalahari, PV3929), black fulfills weathering moist, hot (Florida, PV3930)
Market Segment	Automotive, building and construction, do-it-yourself, electrical and electronic, Machinery, Furniture
Application Area	injection moulded parts
Typical Applications	seals, sealing lip, handles, soft touch elements, impact protection / shock absorber, functional components, casters, 2K components
Adhesion to	Polyamide, Polyamide 6, Polyamide 66

Pre-Drying Conditions	in a dry air (dessiccant) dryer 70-80 °C for 2-4 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 215-260 °C mould temperature <70 °C injection speed 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

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	3.4	MPa	ISO 37
Tensile Strength (Type 2)	5.3	MPa	ISO 37
Tear Strength (Method Ba)	27	kN/m	ISO 34-1
Elongation at Break (Type 2)	325	%	ISO 37
Shore Hardness A (15s)	70	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	50	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	42	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	25	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	65	%	ISO 815

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Electrical Properties

Surface Resistance	1E12	Ohm	DIN EN 62631-3-2
Tracking Resistance (CTI)	600	-	IEC 60112

Rheological Properties

Shrinkage (lengthwise, 24h)	1.5 - 1.9	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.6	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	70	cm	-

Physical Properties

Density	930	kg/m ³	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
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695

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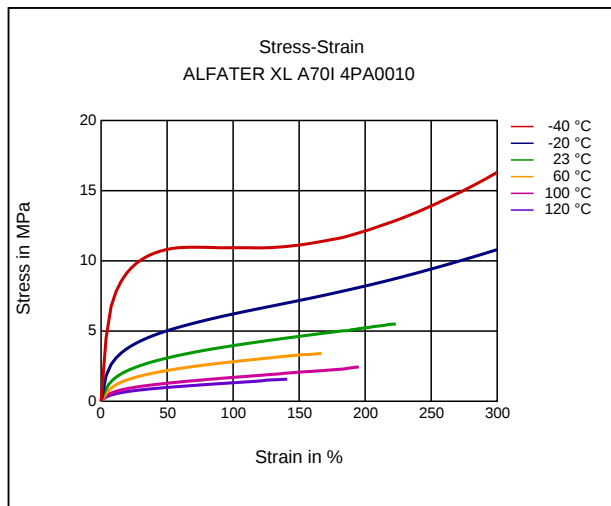
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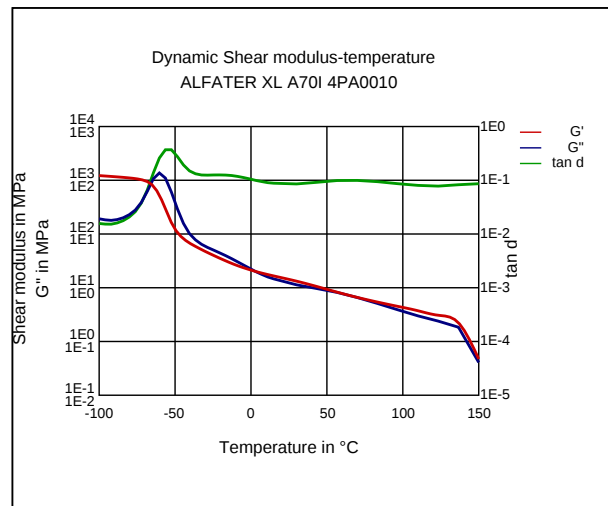
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Diagrams

Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

