

Technical Data Sheet

❖ Alfater XL®

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ALFATER XL A55I 4PA0010

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	adhesion-modified to polyamide,easy flow,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,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
Approvals	DBL5562,VW50123

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 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)	2.4	MPa	ISO 37
Tensile Strength (Type 2)	3.7	MPa	ISO 37
Tear Strength (Method Ba)	15	kN/m	ISO 34-1
Elongation at Break (Type 2)	250	%	ISO 37
Shore Hardness A (15s)	55	-	ISO 868
Thermal Properties			
Coeff. of Linear Therm. Expansion (parallel)	12.1	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	19	E-6/K	ISO 11359-1/-2
Compression Set (22h / 100 °C / 25% / Type A)	37	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	30	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	18	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	52	%	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

Spiral Flow (2 mm wall thickness)	55	cm	-
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Physical Properties

Density	930	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
Fire behavior FMVSS (2.0 mm)	passed	-	FMVSS 302/DIN 75200

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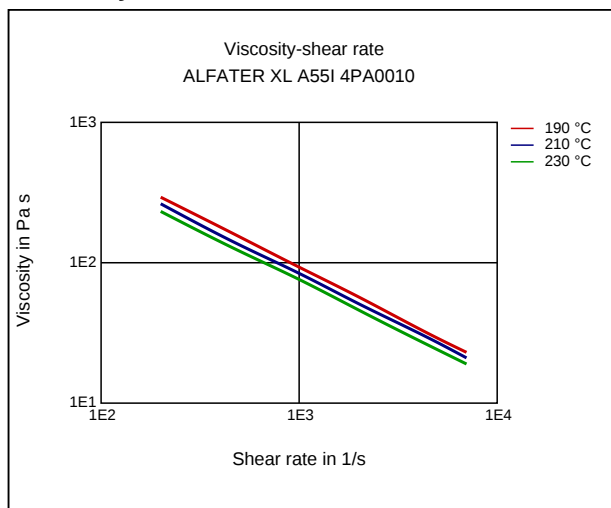
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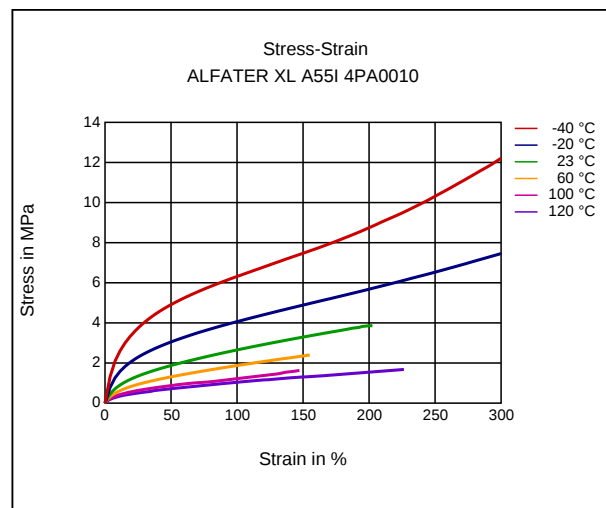
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Diagrams

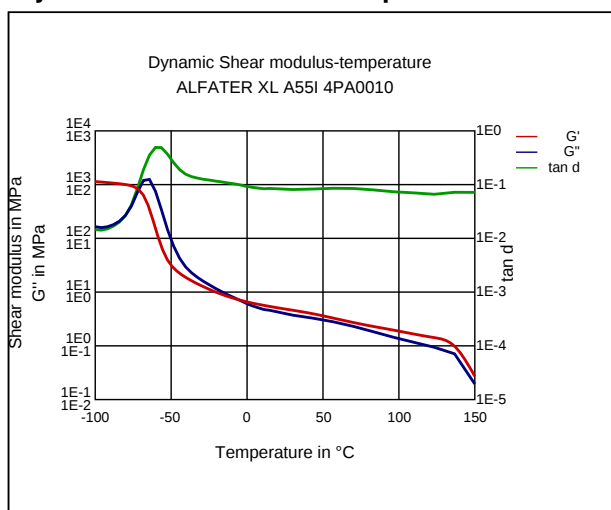
Viscosity-shear rate



Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

