

ALFATER XL A55I 4PA0010

(Last update: 03.03.2025)

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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

Technical Data Sheet

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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/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
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695
Fire behavior FMVSS (2.0 mm)	passed	-	FMVSS 302/DIN 75200

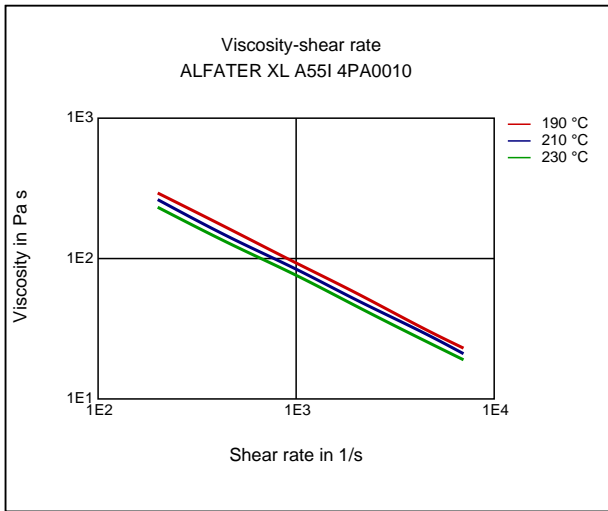
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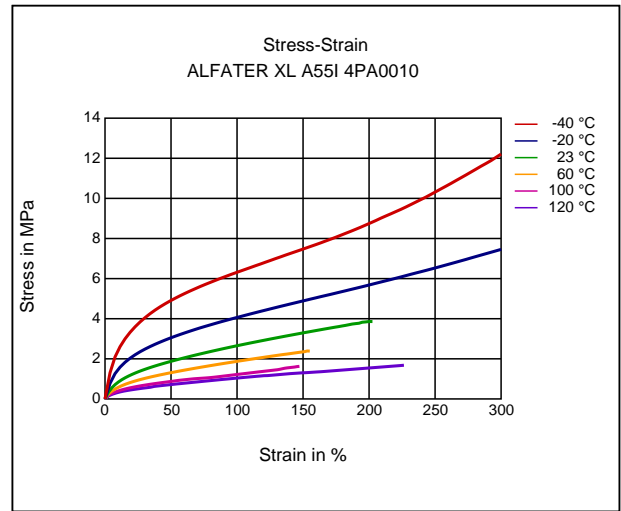
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Diagrams

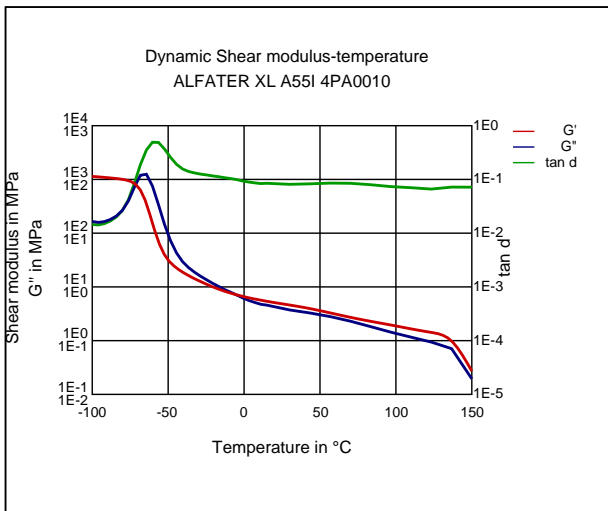
Viscosity-shear rate



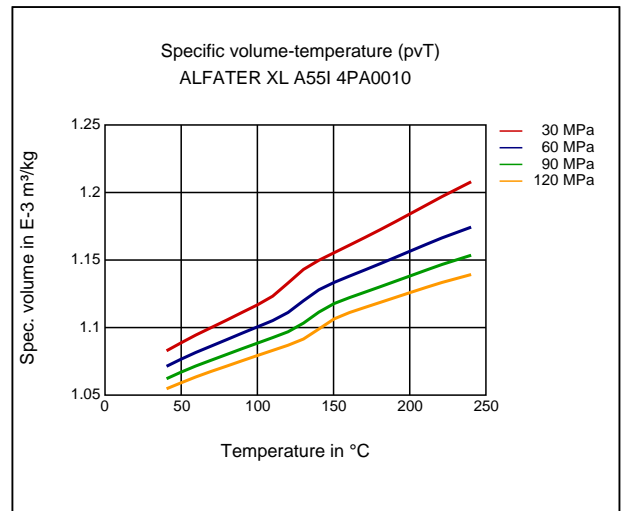
Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)



Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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