

Technical Data Sheet

❖ Alfater XL®

MOCOM

ALFATER XL D50E 2GP0000

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	high viscosity,good weathering resistance,good chemical resistance,good ozone reistance,good hot air resistance,good hydrolysis resistant
Market Segment	Automotive,building and construction,Machinery,electrical and electronic,Furniture
Application Area	extruded parts,blow moulded parts,coextrusion
Typical Applications	profile,seals,sealing lip,conduit,tubes,cable guides,cable jacketing,bellows,air duct,2K components
Adhesion to	Polypropylene Homopolymer,Polypropylene Copolymer,Polyethylene,Thermoplastic Vulcanisate (PP+EPDM),Thermoplastic Olefin Elastomer,Thermoplastic Elastomer general
Approvals	DBL5562,VW50123,PMR

Pre-Drying Conditions	in a dry air (dessiccant) dryer 70-80 °C for 2-4 h max. moisture content <0,10 %
Processing Extrusion	melt temperature 190-230 °C die temperature 190-220 °C
Storage	dry, protected from light tightly sealed

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	13.5	MPa	ISO 37
Tensile Strength (Type 2)	30	MPa	ISO 37
Tear Strength (Method Ba)	105	kN/m	ISO 34-1
Elongation at Break (Type 2)	675	%	ISO 37
Shore Hardness D (15s)	50	-	ISO 868
Thermal Properties			
Brittleness Temperature (method B)	-40	°C	ISO 812
Coeff. of Linear Therm. Expansion (parallel)	12.5	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	10.7	E-6/K	ISO 11359-1/-2
Compression Set (22h / 100 °C / 25% / Type A)	75	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	66	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	49	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	92	%	ISO 815

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Electrical Properties

Tracking Resistance (CTI)	600	-	IEC 60112
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Physical Properties

Density	960	kg/m³	ISO 1183
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Ageing Properties

Ozone resistance (method A)	passed	-	ISO 1431-1A
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Tribologic Properties

Abrasion (Method A)	70	mm³	ISO 4649
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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
Fire behavior FMVSS (2.0 mm)	passed	-	FMVSS 302/DIN 75200

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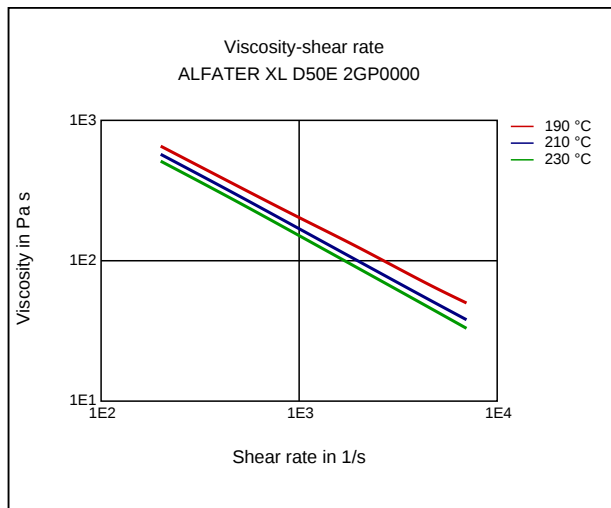
Alfater XL[®]

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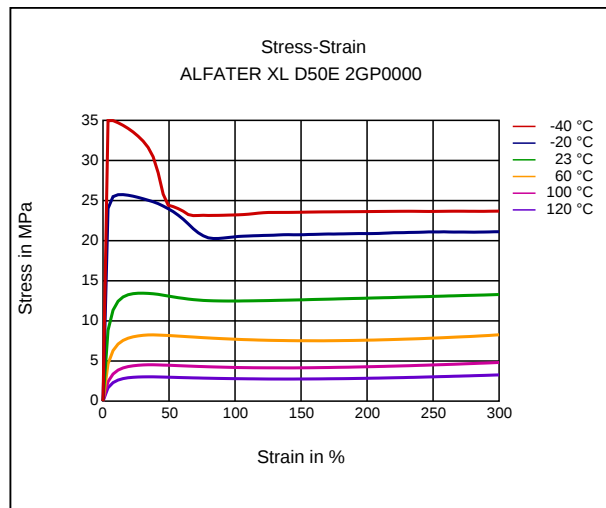
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Diagrams

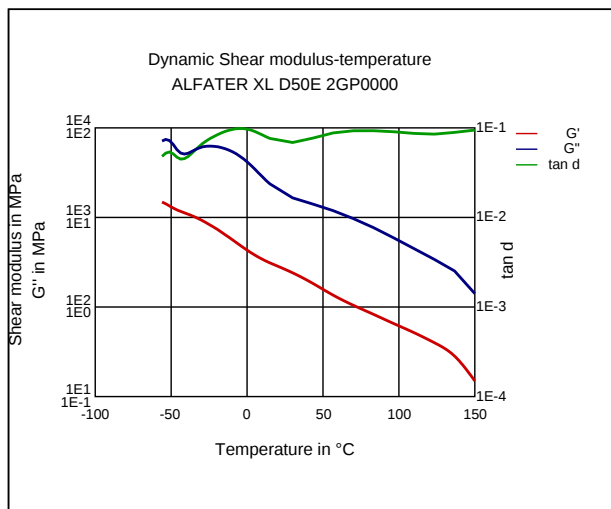
Viscosity-shear rate



Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

