

Technical Data Sheet

❖ Alfater XL®

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ALFATER XL A50I 2GP0000

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	natural color,black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	good recovery,good weathering resistance,good chemical resistance,good ozone reistance,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,protection caps,cable ducts,plugs,fastener & connector,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 for 2-4 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 195-230 °C mould temperature 10-60 °C injection speed high back pressure (hydraulic) >5 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)	1.7	MPa	ISO 37
Tensile Strength (Type 2)	4.2	MPa	ISO 37
Tear Strength (Method Ba)	16	kN/m	ISO 34-1
Elongation at Break (Type 2)	400	%	ISO 37
Shore Hardness A (15s)	50	-	ISO 868
Thermal Properties			
Compression Set (22h / 100°C / 25% / Type A)	34	%	ISO 815
Compression Set (22h / 70°C / 25% / Type A)	33	%	ISO 815
Compression Set (72h / 22°C / 25% / Type A)	23	%	ISO 815

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Compression Set (72h / 125°C / 25% / Type A)	41	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112
Rheological Properties			
Spiral Flow (2 mm wall thickness)	30	cm	-
Physical Properties			
Density	930	kg/m³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A
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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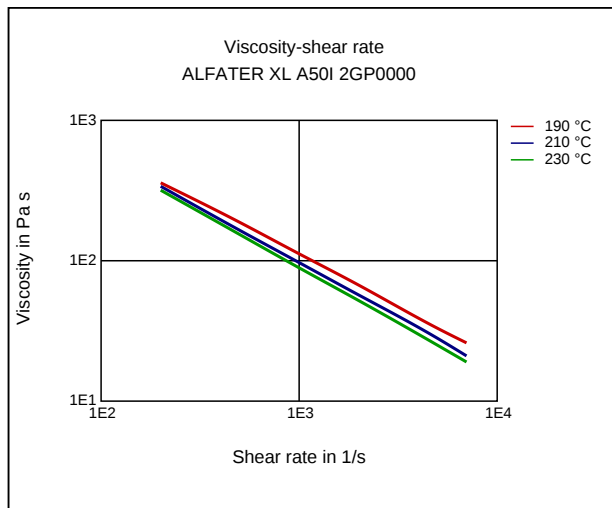
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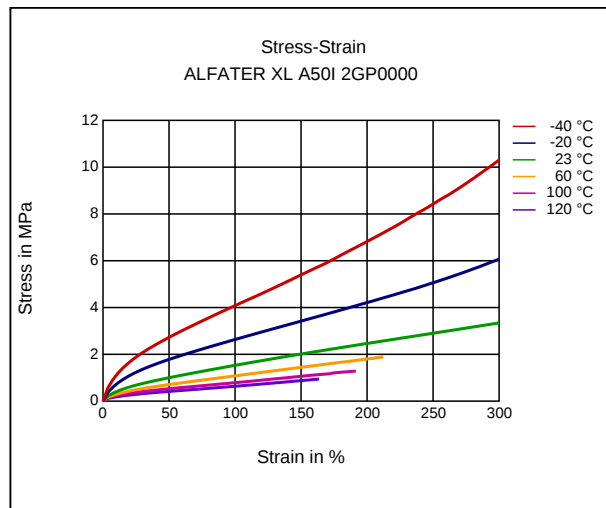
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Diagrams

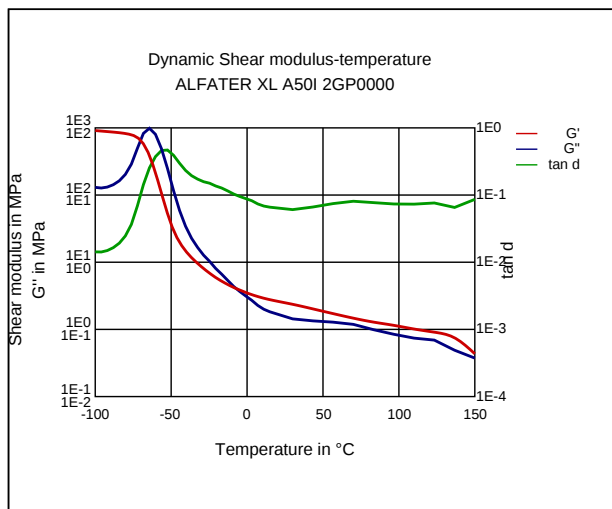
Viscosity-shear rate



Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

