

Technical Data Sheet

❖ Alfater XL®

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ALFATER XL A90I 2GP0050

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
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,casters,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 70-80 °C for 2-4 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 200-240 °C mould temperature 10-70 °C injection speed high back pressure (hydraulic) >5 bar holding pressure 50-70% of injection pressure
Storage	dry, protected from light tightly sealed

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	6.4	MPa	ISO 37
Tensile Strength (Type 2)	10.4	MPa	ISO 37
Tear Strength (Method Ba)	48	kN/m	ISO 34-1
Elongation at Break (Type 2)	500	%	ISO 37
Shore Hardness A (15s)	90	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	60	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	51	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	37	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	76	%	ISO 815

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Electrical Properties

Tracking Resistance (CTI)	600	-	IEC 60112
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Rheological Properties

Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.9 - 1.3	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	55	cm	-

Physical Properties

Density	950	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
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

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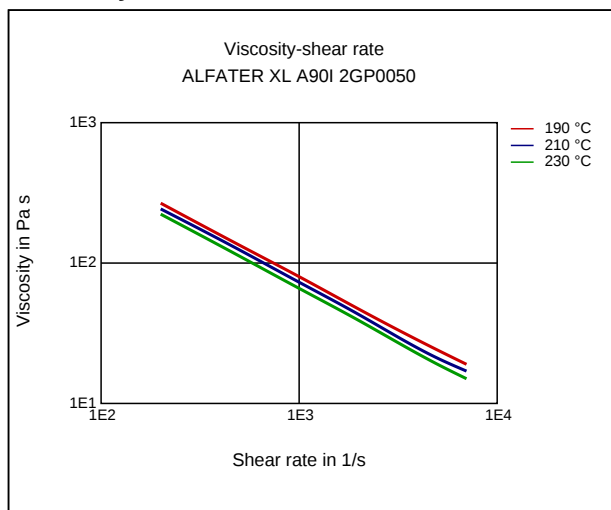
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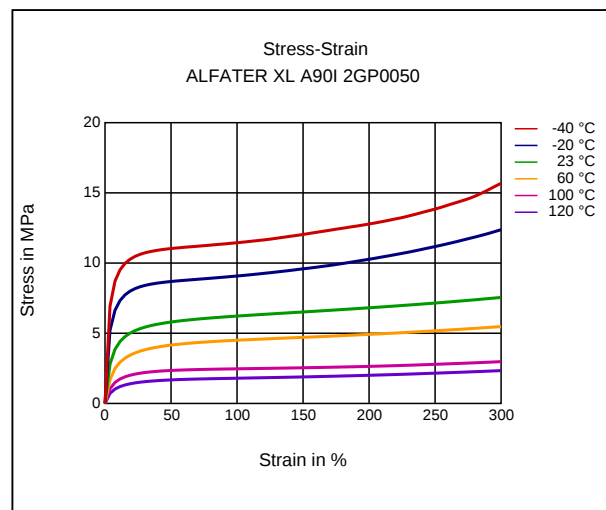
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Diagrams

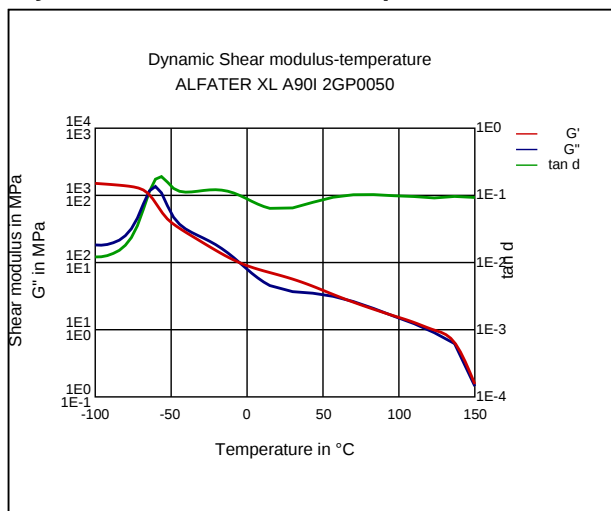
Viscosity-shear rate



Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

