

Technical Data Sheet

❖ Alfater XL®

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ALFATER XL A40I 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,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 60-70 °C 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
Minimum Shelf Life	months <12

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	1.5	MPa	ISO 37
Tensile Strength (Type 2)	3.1	MPa	ISO 37
Tear Strength (Method Ba)	13	kN/m	ISO 34-1
Elongation at Break (Type 2)	275	%	ISO 37
Shore Hardness A (15s)	40	-	ISO 868
Thermal Properties			
Compression Set (22h / 100°C / 25% / Type A)	32	%	ISO 815
Compression Set (22h / 70°C / 25% / Type A)	32	%	ISO 815
Compression Set (72h / 22°C / 25% / Type A)	15	%	ISO 815

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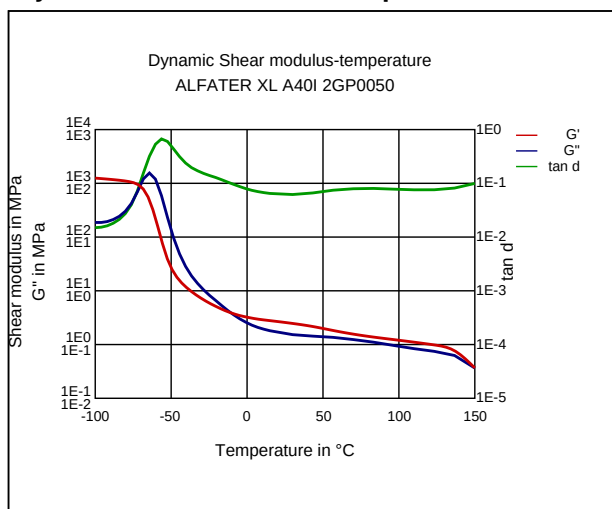
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Compression Set (72h / 125 °C / 25% / Type A)	45	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112
Rheological Properties			
Spiral Flow (2 mm wall thickness)	35	cm	-
Physical Properties			
Density	930	kg/m ³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A

Diagrams

Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

