

Technical Data Sheet

❖ Alfater XL®



ALFATER XL D40I 2GP0050

MOCOM

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 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, 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) 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)	10.5	MPa	ISO 37
Tensile Strength (Type 2)	16.5	MPa	ISO 37
Tear Strength (Method Ba)	75	kN/m	ISO 34-1
Elongation at Break (Type 2)	570	%	ISO 37
Shore Hardness D (15s)	40	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	77	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	67	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	47	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	92	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112

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Rheological Properties

Shrinkage (lengthwise, 24h)	1.3 - 1.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.9 - 1.3	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	40	cm	-

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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Diagrams

Specific volume-temperature (pvT)

