

Technical Data Sheet

❖ Alfater XL®



ALFATER XL A65I 2GP0000

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, 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 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

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	2.7	MPa	ISO 37
Tensile Strength (Type 2)	5.6	MPa	ISO 37
Tear Strength (Method Ba)	26	kN/m	ISO 34-1
Elongation at Break (Type 2)	375	%	ISO 37
Shore Hardness A (15s)	65	-	ISO 868
Thermal Properties			
Coeff. of Linear Therm. Expansion (parallel)	10	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	18.8	E-6/K	ISO 11359-1/-2
Compression Set (22h / 100 °C / 25% / Type A)	42	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	35	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	25	%	ISO 815

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Compression Set (72h / 125° C / 25% / Type A)	55	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112
Rheological Properties			
Shrinkage (lengthwise, 24h)	2.5 - 2.9	%	ISO 294-4
Shrinkage (lateral, 24h)	1.3 - 1.7	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	35	cm	-
Physical Properties			
Density	900	kg/m ³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A

Diagrams

Specific volume-temperature (pvT)

