

**ALFATER XL A65I 2GP0050**

(Last update: 09.11.2021)

**MOCOM**

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	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
<b>Mechanical Properties</b>			
Tensile Stress at 100% Elongation (Type 2)	2.9	MPa	ISO 37
Tensile Strength (Type 2)	6	MPa	ISO 37
Tear Strength (Method Ba)	25	kN/m	ISO 34-1
Elongation at Break (Type 2)	390	%	ISO 37
Shore Hardness A (15s)	65	-	ISO 868
<b>Thermal Properties</b>			
Brittleness Temperature (method B)	-62	°C	ISO 812
Coeff. of Linear Therm. Expansion (parallel)	9.6	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	12.7	E-6/K	ISO 11359-1/-2
Compression Set (22h / 100 °C / 25% / Type A)	38	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	36	%	ISO 815

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Compression Set (72h / 22 °C / 25% / Type A)	20	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	65	%	ISO 815

**Electrical Properties**

Tracking Resistance (CTI)	600	-	IEC 60112
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**Rheological Properties**

Shrinkage (lengthwise, 24h)	2.5 - 2.9	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.6	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	55	cm	-

**Physical Properties**

Density	940	kg/m <sup>3</sup>	ISO 1183
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**Ageing Properties**

Ozone resistance (method A)	passed	-	ISO 1431-1A
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**Liability Exclusion**

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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