

Technical Data Sheet - Preliminary Product

❖ Alfater XL®

MOCOM

ALFATER XL A80 2EC0000

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	electrically conductive, reduced surface resistivity, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant
Market Segment	Automotive, Machinery, electrical and electronic, building and construction
Application Area	injection moulded parts, extruded parts, coextrusion
Typical Applications	functional components with electrical conductivity, seals, sealing lip, profile, 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 195-230 °C mould temperature 10-60 °C injection speed high back pressure (hydraulic) >5 bar holding pressure 50-70% of injection pressure
Processing Extrusion	melt temperature 200-240 °C die temperature 200-230 °C
Storage	dry, protected from light not above 30°C tightly sealed

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	4.2	MPa	ISO 37
Tensile Strength (Type 2)	8.4	MPa	ISO 37
Tear Strength (Method Ba)	40	kN/m	ISO 34-1
Elongation at Break (Type 2)	470	%	ISO 37
Shore Hardness A (15s)	80	-	ISO 868
Thermal Properties			
Compression Set (22h / 100°C / 25% / Type A)	60	%	ISO 815
Compression Set (22h / 70°C / 25% / Type A)	53	%	ISO 815
Compression Set (72h / 22°C / 25% / Type A)	30	%	ISO 815
Compression Set (72h / 125°C / 25% / Type A)	70	%	ISO 815

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Electrical Properties

Surface Resistance	25	Ohm	DIN EN 62631-3-2
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Physical Properties

Density	1000	kg/m ³	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
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695