

Technical Data Sheet - Preliminary Product

 **Alfater XL[®] ECO**
 **MOCOM**
ALFATER XL ECO D40 2GP0000

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	Polymer recyclate, 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, extruded parts, blow moulded parts, coextrusion
Typical Applications	seals, sealing lip, handles, impact protection / shock absorber, protection caps, cable ducts, casters, profile, tubes, cable guides, cable jacketing, bellows, air duct, 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 195-240 °C mould temperature 10-70 °C injection speed high back pressure (hydraulic) >4 bar holding pressure 50-70% of injection pressure press blow molding melt temperature 190-210 °C
Processing Extrusion	melt temperature 190-230 °C die temperature 190-220 °C
Storage	dry, protected from light tightly sealed

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	8.8	MPa	ISO 37
Tensile Strength (Type 2)	14.5	MPa	ISO 37
Tear Strength (Method Ba)	73	kN/m	ISO 34-1
Elongation at Break (Type 2)	550	%	ISO 37
Shore Hardness D (15s)	40	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	78	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	70	%	ISO 815

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Compression Set (72h / 22°C / 25% / Type A)	55	%	ISO 815
Compression Set (72h / 125°C / 25% / Type A)	94	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112
Rheological Properties			
Shrinkage (lengthwise, 24h)	2 - 2.4	%	ISO 294-4
Shrinkage (lateral, 24h)	1.3 - 1.7	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	30	cm	-
Physical Properties			
Density	970	kg/m ³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A
Ecological Properties			
Global Warming Potential (GWP)	1.5	kg CO ₂ eq./kg	ISO 14040, 14044