

Technical Data Sheet - Preliminary Product

❖ Alfater XL[®]

MOCOM

ALFATER XL D40I 2GP0000

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 reistance,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,coextrusion
Typical Applications	seals,sealing lip,handles,impact protection / shock absorber,protection caps,cable ducts,casters,plugs,fastener & connector,profile,cable jacketing,conduit,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) >5 bar holding pressure 50-70% of injection pressure
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)	10.1	MPa	ISO 37
Tensile Strength (Type 2)	21	MPa	ISO 37
Tear Strength (Method Ba)	76	kN/m	ISO 34-1
Elongation at Break (Type 2)	660	%	ISO 37
Shore Hardness D (15s)	40	-	ISO 868
Thermal Properties			
Brittleness Temperature (method B)	-52	°C	ISO 812
Compression Set (22h / 100 °C / 25% / Type A)	79	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	55	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	52	%	ISO 815

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Compression Set (72h / 125°C / 25% / Type A)	92	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112
Dielectric Strength	43	kV/mm	IEC 60243-1
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.4	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	35	cm	-
Physical Properties			
Density	960	kg/m ³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A

Diagrams

Specific volume-temperature (pvT)

