

ALFATER XL D40I 4FC0010

(Last update: 17.02.2021)

MOCOM

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	natural color, bright inherent color, blue
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	food contact, compliant EN 71-3, good colorability, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant, easy flow
Market Segment	packaging, household goods, food processing industry, toys
Application Area	injection moulded parts
Typical Applications	seals, sealing lip, handles, protection caps, caps / closures, containers, kitchen ware, 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 10-70 °C injection speed middle - high back pressure (hydraulic) >3 bar holding pressure 50-70% of injection pressure
Storage	dry, protected from light tightly sealed
Minimum Shelf Life	months <12

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	9.5	MPa	ISO 37
Tensile Strength (Type 2)	11.3	MPa	ISO 37
Tear Strength (Method Ba)	74	kN/m	ISO 34-1
Elongation at Break (Type 2)	400	%	ISO 37
Shore Hardness D (15s)	40	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	80	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	70	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	48	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	92	%	ISO 815

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Rheological Properties

Shrinkage (lengthwise, 24h)	1.2 - 1.6	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.4	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	70	cm	-

Physical Properties

Density	950	kg/m ³	ISO 1183
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Ageing Properties

Ozone resistance (method A)	passed	-	ISO 1431-1A
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Additional Information

Different color matches of this material can have significant influence on the suitability according to the various food contact directives (e.g. FDA or EU). Please request a compliance confirmation per colorcode regarding the suitability for the specific food contact application.

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.

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