

**ALFATER XL A70I 3EF0010**

(Last update: 08.09.2023)

**MOCOM**

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	easy flow, high surface quality, black fulfills weathering dry, hot (Kalahari, PV3929), black fulfills weathering moist, hot (Florida, PV3930), 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, sport and leisure, Furniture
Application Area	injection moulded parts
Typical Applications	seals, sealing lip, handles, soft touch elements, impact protection / shock absorber, protection caps, thin walled parts, profile, cable ducts, 2K components, casters
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 190-220 °C mould temperature 10-60 °C injection speed middle - high back pressure (hydraulic) >3 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)	3.3	MPa	ISO 37
Tensile Strength (Type 2)	5.6	MPa	ISO 37
Tear Strength (Method Ba)	30	kN/m	ISO 34-1
Elongation at Break (Type 2)	375	%	ISO 37
Shore Hardness A (15s)	70	-	ISO 868
<b>Thermal Properties</b>			
Brittleness Temperature (method B)	-70	°C	ISO 812
Coeff. of Linear Therm. Expansion (parallel)	10.1	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	21.8	E-6/K	ISO 11359-1/-2

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Compression Set (22h / 100 °C / 25% / Type A)	48	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	42	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	27	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	61	%	ISO 815

**Electrical Properties**

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

Shrinkage (lengthwise, 24h)	1.3 - 1.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1.2	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	95	cm	-

**Physical Properties**

Density	950	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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**Flammability**

Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695
Fire behavior FMVSS (2.0 mm)	passed	-	FMVSS 302/DIN 75200

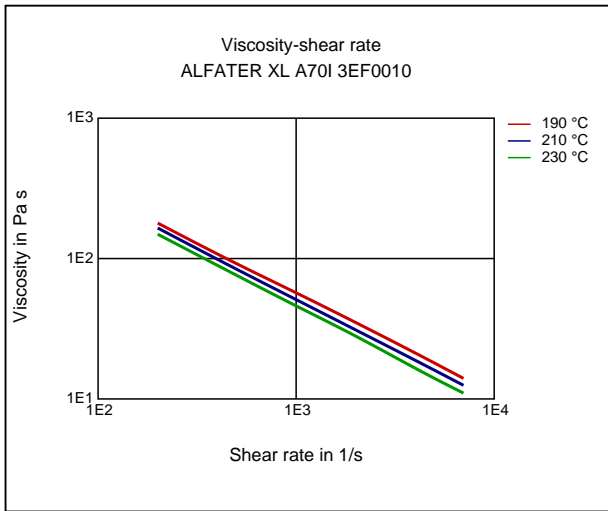
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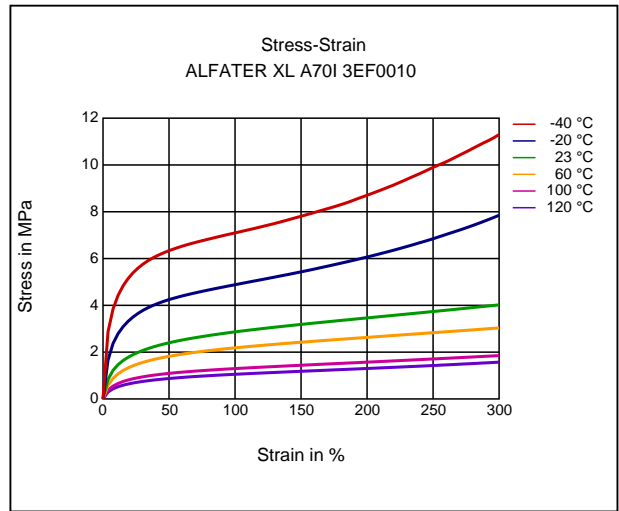
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**Diagrams**

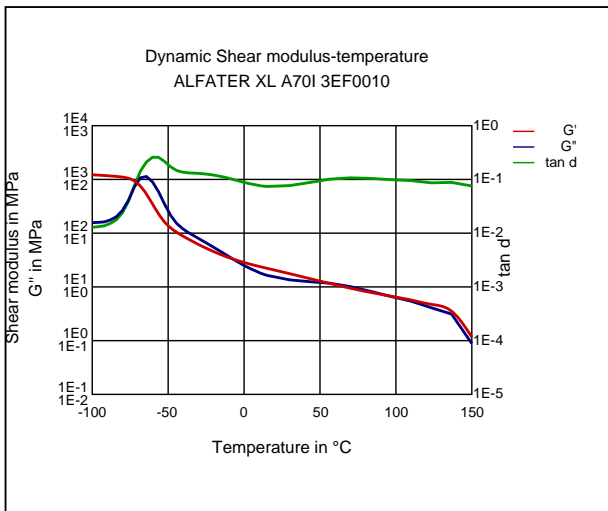
**Viscosity-shear rate**



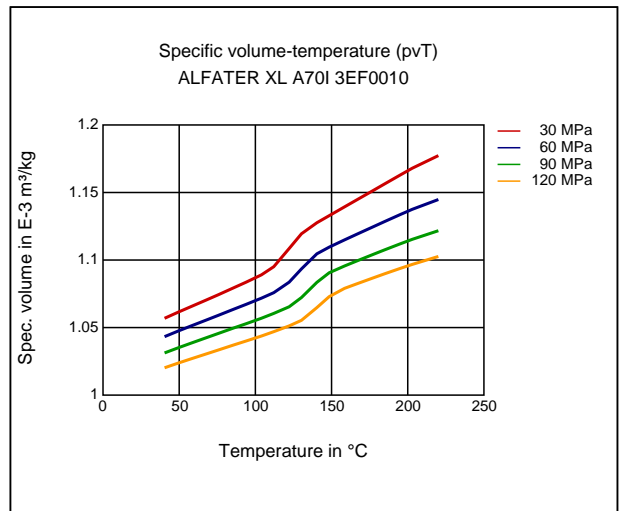
**Stress-Strain**



**Dynamic Shear modulus-temperature**



**Specific volume-temperature (pvT)**



**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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Phone: + 49 (0) 40 78105-0

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assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

**Important:** irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
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- any critical component in any medical device that supports or sustains human life.

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