

ALFATER XL A85I 4PA0010

(Last update: 10.02.2025)

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Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	adhesion-modified to polyamide, easy flow, 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
Typical Applications	seals, sealing lip, handles, soft touch elements, impact protection / shock absorber, functional components, casters, 2K components
Adhesion to	Polyamide, Polyamide 6, Polyamide 66

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 215-260 °C mould temperature <70 °C injection speed high back pressure (hydraulic) >3 bar holding pressure 50-70% of injection pressure
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)	4.6	MPa	ISO 37
Tensile Strength (Type 2)	6.9	MPa	ISO 37
Tear Strength (Method Ba)	40	kN/m	ISO 34-1
Elongation at Break (Type 2)	400	%	ISO 37
Shore Hardness A (15s)	85	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	60	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	50	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	35	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	72	%	ISO 815
Electrical Properties			
Tracking Resistance (CTI)	600	-	IEC 60112

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Rheological Properties

Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1.1 - 1.5	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	60	cm	-

Physical Properties

Density	930	kg/m ³	ISO 1183
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Ageing Properties

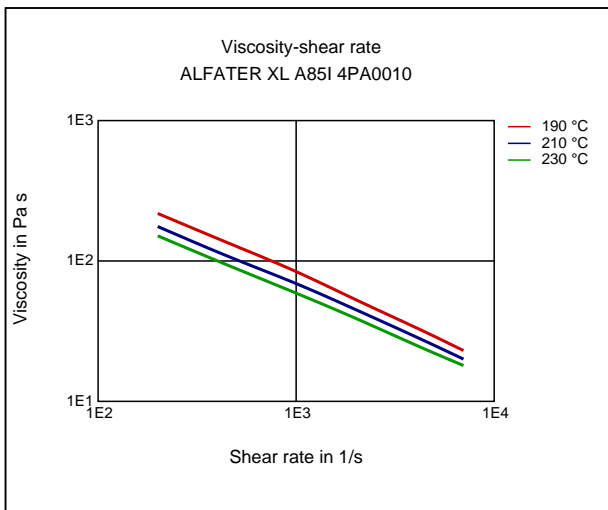
Ozone resistance (method A)	passed	-	ISO 1431-1A
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Flammability

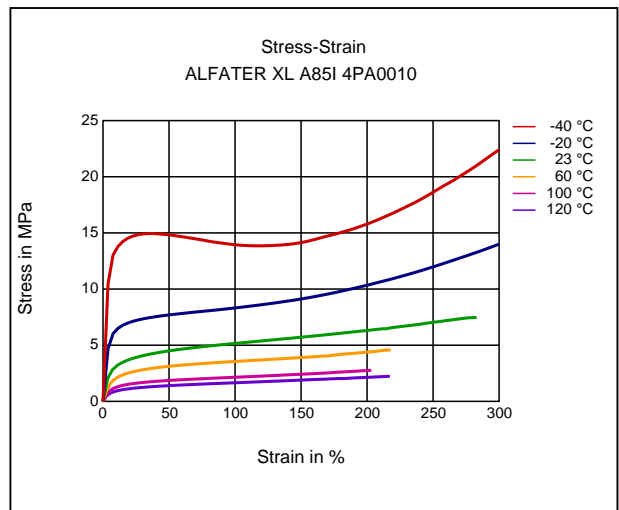
Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

Diagrams

Viscosity-shear rate



Stress-Strain



Technical Data Sheet

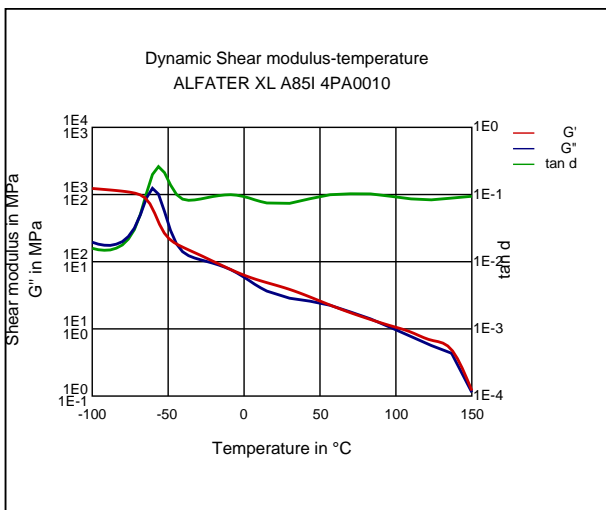
Alfater XL[®]

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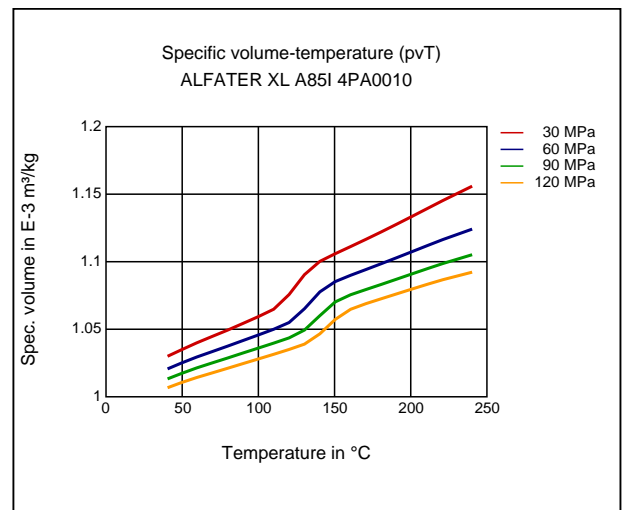
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Dynamic Shear modulus-temperature



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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- risk class III applications according to EU directive 93/42/EEC

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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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