

ALFATER XL A85E 2GP0000

(Last update: 15.11.2024)

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Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	natural color, black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	high viscosity, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant
Market Segment	Automotive, building and construction, Machinery, electrical and electronic, Furniture
Application Area	extruded parts, blow moulded parts, coextrusion
Typical Applications	profile, seals, sealing lip, conduit, 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 Extrusion	melt temperature 190-230 °C die temperature 190-210 °C
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)	5	MPa	ISO 37
Tensile Strength (Type 2)	11	MPa	ISO 37
Tear Strength (Method Ba)	50	kN/m	ISO 34-1
Elongation at Break (Type 2)	530	%	ISO 37
Shore Hardness A (15s)	85	-	ISO 868
Thermal Properties			
Coeff. of Linear Therm. Expansion (parallel)	10.9	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	17.6	E-6/K	ISO 11359-1/-2
Compression Set (22h / 100 °C / 25% / Type A)	55	%	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)	75	%	ISO 815
Electrical Properties			
Surface Resistance	1E12	Ohm	DIN EN 62631-3-2

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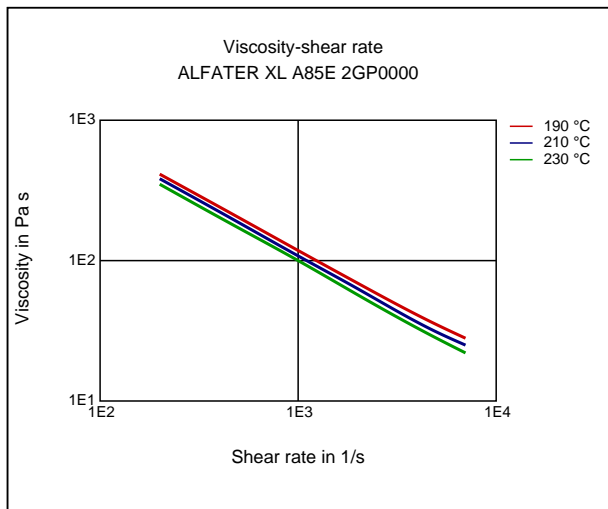
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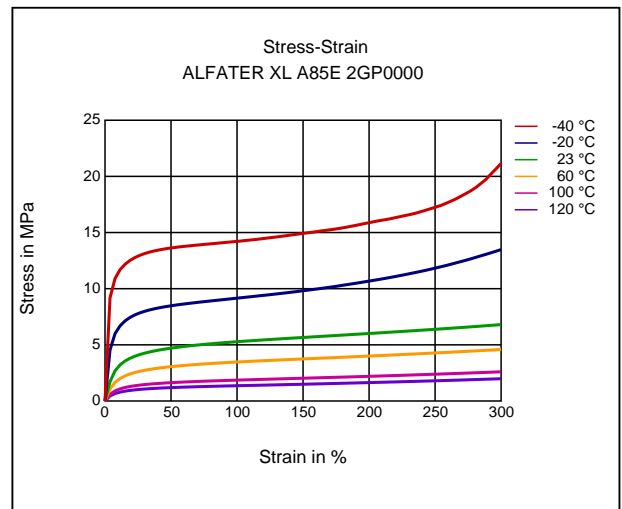
Tracking Resistance (CTI)	600	-	IEC 60112
Physical Properties			
Density	940	kg/m ³	ISO 1183
Ageing Properties			
Ozone resistance (method A)	passed	-	ISO 1431-1A
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

Diagrams

Viscosity-shear rate



Stress-Strain



Technical Data Sheet

Alfater XL[®]

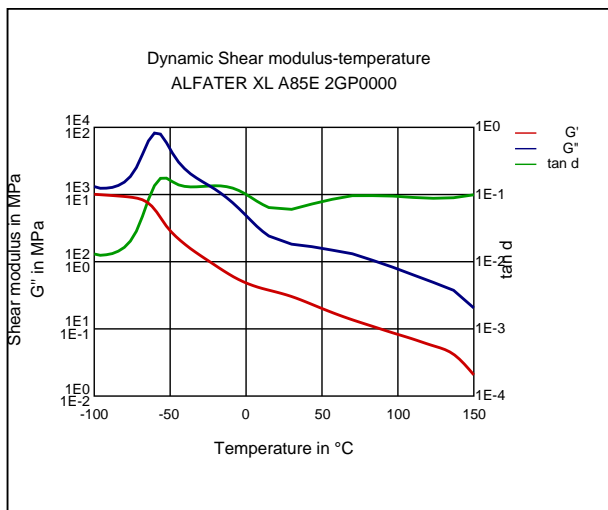
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Dynamic Shear modulus-temperature



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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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 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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