

ALFATER XL D50I 2GP0050

(Last update: 19.02.2024)

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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	good recovery, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant, black fulfills weathering dry, hot (Kalahari, PV3929), black fulfills weathering moist, hot (Florida, PV3930)
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, impact protection / shock absorber, protection caps, cable ducts, casters, plugs, fastener & connector, 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
Storage	dry, protected from light tightly sealed

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	14	MPa	ISO 37
Tensile Strength (Type 2)	18.8	MPa	ISO 37
Tear Strength (Method Ba)	95	kN/m	ISO 34-1
Elongation at Break (Type 2)	610	%	ISO 37
Shore Hardness D (15s)	50	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	75	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	73	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	55	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	95	%	ISO 815

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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)	0.9 - 1.3	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	40	cm	-

Physical Properties

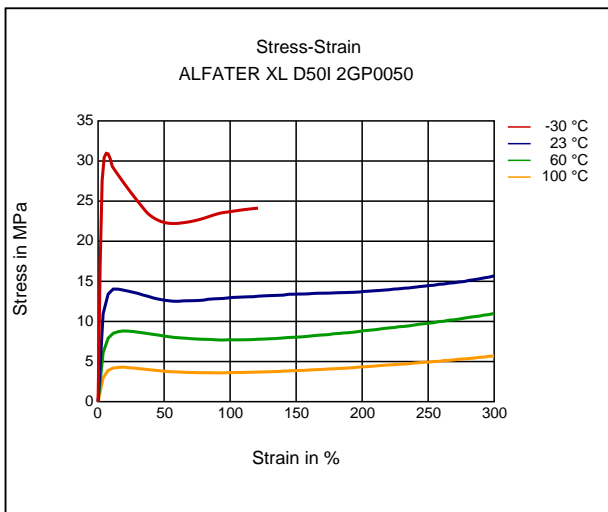
Density	970	kg/m ³	ISO 1183
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Ageing Properties

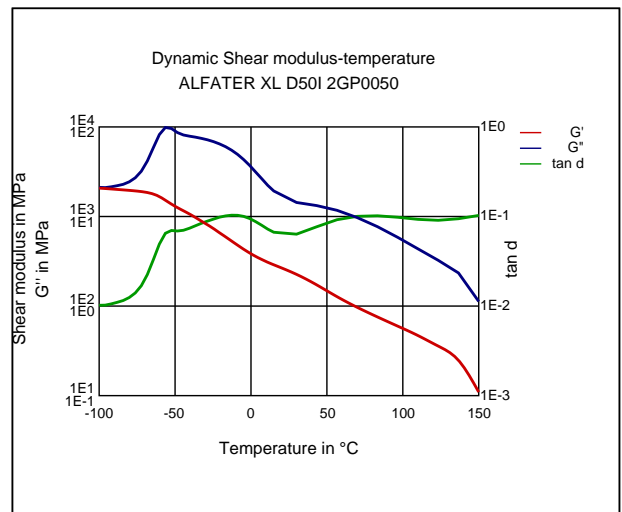
Ozone resistance (method A)	passed	-	ISO 1431-1A
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Diagrams

Stress-Strain



Dynamic Shear modulus-temperature



Technical Data Sheet

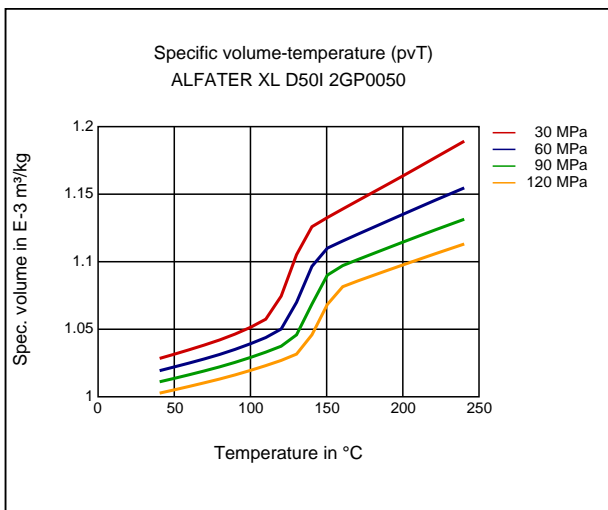
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Specific volume-temperature (pvT)



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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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

Technical Data Sheet

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The logo for ALBIS, featuring a stylized blue icon of three overlapping shapes to the left of the word "ALBIS" in a bold, blue, sans-serif font.

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

At all times, our standard terms and conditions of sale apply.