

ALFATER XL A70I 4PA0010

(Last update: 10.02.2025)

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| | |
|----------------------|---|
| Base Polymer | Thermoplastic Vulcanisate (PP+EPDM) |
| Colour | natural color, bright inherent color, black, red |
| 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, 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, 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 do not stack the pallets |

| Properties | Value | Dimension | Test Norm |
|---|--------------|------------------|------------------|
| Mechanical Properties | | | |
| Tensile Stress at 100% Elongation (Type 2) | 3.4 | MPa | ISO 37 |
| Tensile Strength (Type 2) | 5.3 | MPa | ISO 37 |
| Tear Strength (Method Ba) | 27 | kN/m | ISO 34-1 |
| Elongation at Break (Type 2) | 325 | % | ISO 37 |
| Shore Hardness A (15s) | 70 | - | ISO 868 |
| Thermal Properties | | | |
| Compression Set (22h / 100 °C / 25% / Type A) | 50 | % | ISO 815 |
| Compression Set (22h / 70 °C / 25% / Type A) | 42 | % | ISO 815 |
| Compression Set (72h / 22 °C / 25% / Type A) | 25 | % | ISO 815 |
| Compression Set (72h / 125 °C / 25% / Type A) | 65 | % | ISO 815 |

Technical Data Sheet

Alfater XL[®]



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Electrical Properties

| | | | |
|---------------------------|------|-----|---------------------|
| Surface Resistance | 1E12 | Ohm | DIN EN 62631-3-2 |
| Tracking Resistance (CTI) | 600 | - | IEC 60112 |

Rheological Properties

| | | | |
|-----------------------------------|-----------|----|-----------|
| Shrinkage (lengthwise, 24h) | 1.5 - 1.9 | % | ISO 294-4 |
| Shrinkage (lateral, 24h) | 1.2 - 1.6 | % | ISO 294-4 |
| Spiral Flow (2 mm wall thickness) | 70 | cm | - |

Physical Properties

| | | | |
|---------|-----|-------------------|----------|
| Density | 930 | 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 |

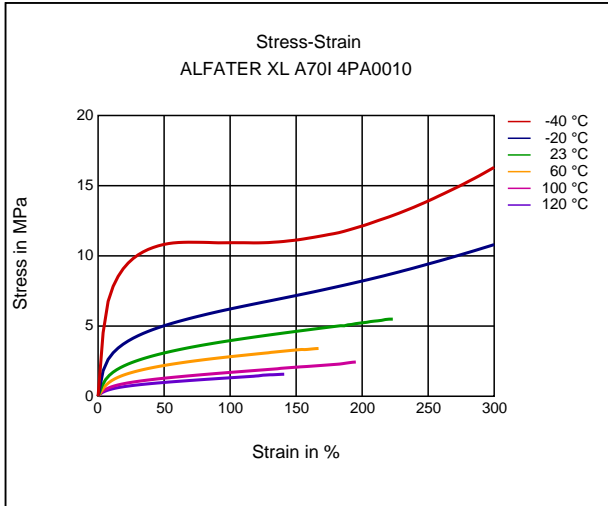
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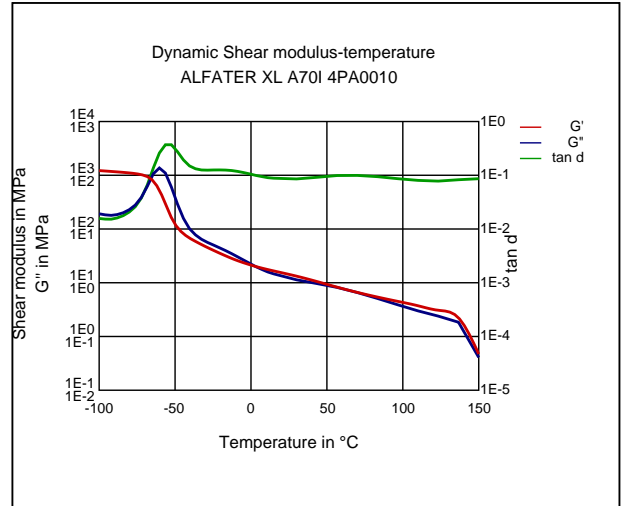


Diagrams

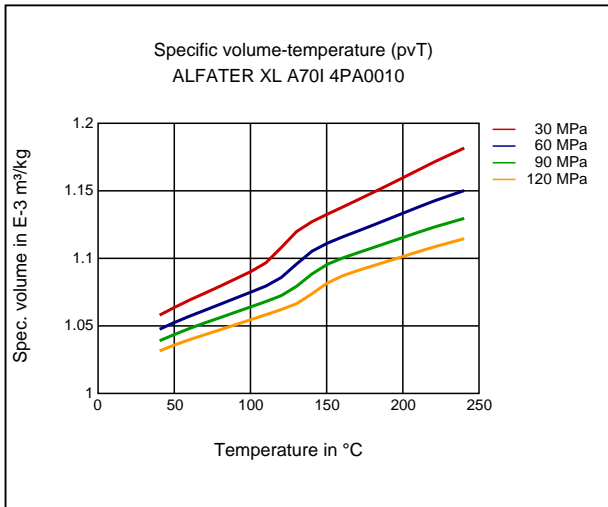
Stress-Strain



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.

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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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
- 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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