

ALFATER XL A90I 3EF0010

(Last update: 22.09.2023)

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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 | 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 |

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|-------------------------------|---|
| 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 195-230 °C mould temperature 10-70 °C injection speed middle - high back pressure (hydraulic) >3 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) | 5.8 | MPa | ISO 37 |
| Tensile Strength (Type 2) | 8.1 | MPa | ISO 37 |
| Tear Strength (Method Ba) | 42 | kN/m | ISO 34-1 |
| Elongation at Break (Type 2) | 425 | % | ISO 37 |
| Shore Hardness A (15s) | 90 | - | ISO 868 |
| Thermal Properties | | | |
| 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) | 14.3 | E-6/K | ISO 11359-1/-2 |
| Compression Set (22h / 100 °C / 25% / Type A) | 63 | % | ISO 815 |
| Compression Set (22h / 70 °C / 25% / Type A) | 55 | % | ISO 815 |

Technical Data Sheet

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|---|-----------|-------------------|---------------------|
| Compression Set (72h / 22 °C / 25% / Type A) | 40 | % | ISO 815 |
| Compression Set (72h / 125 °C / 25% / Type A) | 80 | % | ISO 815 |
| Electrical Properties | | | |
| Tracking Resistance (CTI) | 600 | - | IEC 60112 |
| Rheological Properties | | | |
| Shrinkage (lengthwise, 24h) | 2.5 - 2.9 | % | ISO 294-4 |
| Shrinkage (lateral, 24h) | 1.8 - 2 | % | ISO 294-4 |
| Spiral Flow (2 mm wall thickness) | 55 | cm | - |
| Physical Properties | | | |
| Density | 940 | kg/m ³ | ISO 1183 |
| Ageing Properties | | | |
| Ozone resistance (method A) | passed | - | ISO 1431-1A |
| Flammability | | | |
| Glow Wire (GWFI, 650 °C, 2.0mm) | passed | - | DIN EN 60695 |
| Fire behavior FMVSS (2.0 mm) | passed | - | FMVSS 302/DIN 75200 |

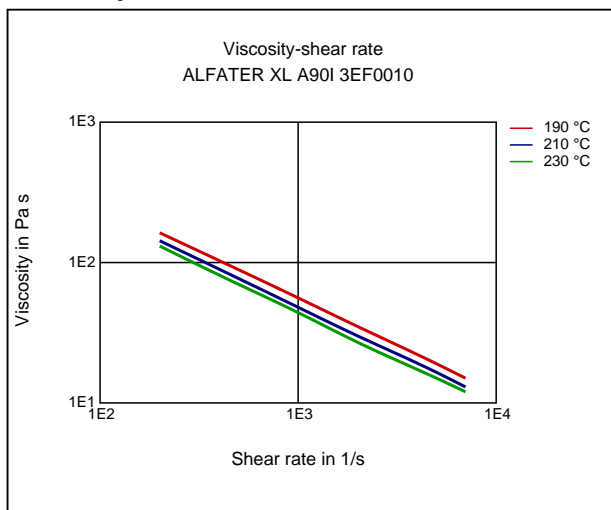
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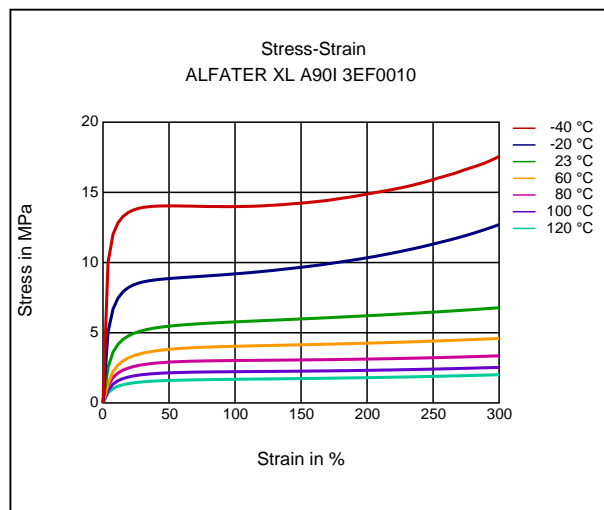
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Diagrams

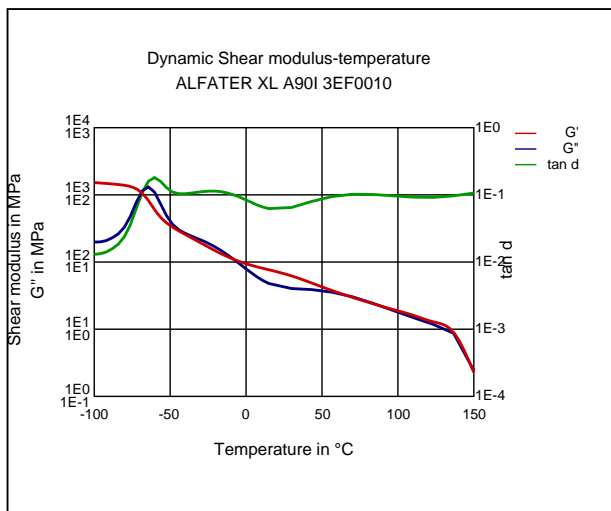
Viscosity-shear rate



Stress-Strain



Dynamic Shear modulus-temperature



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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