

ALFATER XL D40I 4GP0000

(Last update: 10.02.2025)

MOCOM

| | |
|----------------------|---|
| Base Polymer | Thermoplastic Vulcanisate (PP+EPDM) |
| Colour | natural color, bright inherent color, black |
| Service Temperature | max. range (depending on load, geometry, etc.) -40-125 °C |
| Special Features | low emission, good colorability, 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, sport and leisure, Furniture |
| Application Area | injection moulded parts |
| Typical Applications | seals, sealing lip, handles, racking / shelving, impact protection / shock absorber, protection caps, thin walled parts, profile, cable ducts, casters, 2K components |
| 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) | 9.3 | MPa | ISO 37 |
| Tensile Strength (Type 2) | 14.5 | MPa | ISO 37 |
| Tear Strength (Method Ba) | 70 | kN/m | ISO 34-1 |
| Elongation at Break (Type 2) | 575 | % | ISO 37 |
| Shore Hardness D (15s) | 40 | - | ISO 868 |
| Thermal Properties | | | |
| Compression Set (22h / 100 °C / 25% / Type A) | 75 | % | ISO 815 |
| Compression Set (22h / 70 °C / 25% / Type A) | 70 | % | ISO 815 |
| Compression Set (72h / 22 °C / 25% / Type A) | 49 | % | 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 |
|---------------------------|-----|---|-----------|

Rheological Properties

| | | | |
|-----------------------------------|-----------|----|-----------|
| Shrinkage (lengthwise, 24h) | 1.2 - 1.6 | % | ISO 294-4 |
| Shrinkage (lateral, 24h) | 1.2 - 1.4 | % | ISO 294-4 |
| Spiral Flow (2 mm wall thickness) | 60 | 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 |
|---------------------------------|--------|---|--------------|

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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