

## Technical Data Sheet

❖ **Alfater XL<sup>®</sup>****MOCOM****ALFATER XL A90I 2GP0050**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base Polymer         | Thermoplastic Vulcanisate (PP+EPDM)                                                                                                                               |
| Colour               | natural color,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 reistance,good hot air resistance,good hydrolysis resistant                          |
| 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,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<br>for 2-4 h<br>max. moisture content <0,10 %                                                                                 |
| Processing Injection Moulding | melt temperature 200-240 °C<br>mould temperature 10-70 °C<br>injection speed high<br>back pressure (hydraulic) >5 bar<br>holding pressure 50-70% of injection pressure |
| Storage                       | dry, protected from light<br>tightly sealed                                                                                                                            |

| Properties                                    | Value | Dimension | Test Norm |
|-----------------------------------------------|-------|-----------|-----------|
| <b>Mechanical Properties</b>                  |       |           |           |
| Tensile Stress at 100% Elongation (Type 2)    | 6.4   | MPa       | ISO 37    |
| Tensile Strength (Type 2)                     | 10.4  | MPa       | ISO 37    |
| Tear Strength (Method Ba)                     | 48    | kN/m      | ISO 34-1  |
| Elongation at Break (Type 2)                  | 500   | %         | ISO 37    |
| Shore Hardness A (15s)                        | 90    | -         | ISO 868   |
| <b>Thermal Properties</b>                     |       |           |           |
| Compression Set (22h / 100 °C / 25% / Type A) | 60    | %         | ISO 815   |
| Compression Set (22h / 70 °C / 25% / Type A)  | 51    | %         | ISO 815   |
| Compression Set (72h / 22 °C / 25% / Type A)  | 37    | %         | ISO 815   |
| Compression Set (72h / 125 °C / 25% / Type A) | 76    | %         | ISO 815   |

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### Electrical Properties

|                           |     |   |           |
|---------------------------|-----|---|-----------|
| Tracking Resistance (CTI) | 600 | - | IEC 60112 |
|---------------------------|-----|---|-----------|

### Rheological Properties

|                                   |           |    |           |
|-----------------------------------|-----------|----|-----------|
| Shrinkage (lengthwise, 24h)       | 1.4 - 1.8 | %  | ISO 294-4 |
| Shrinkage (lateral, 24h)          | 0.9 - 1.3 | %  | ISO 294-4 |
| Spiral Flow (2 mm wall thickness) | 55        | cm | -         |

### Physical Properties

|         |     |                   |          |
|---------|-----|-------------------|----------|
| Density | 950 | kg/m <sup>3</sup> | 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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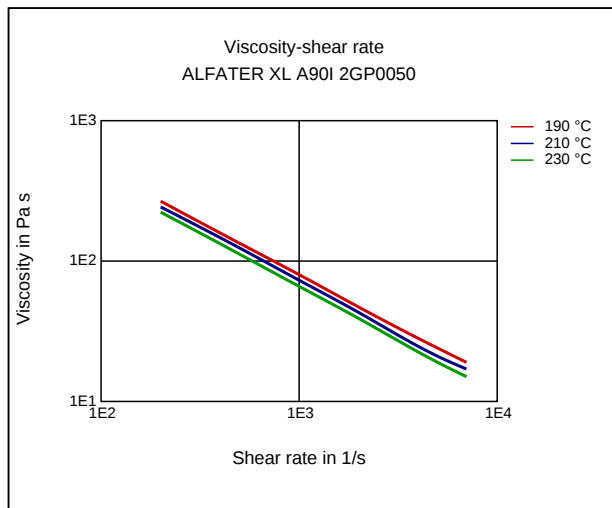
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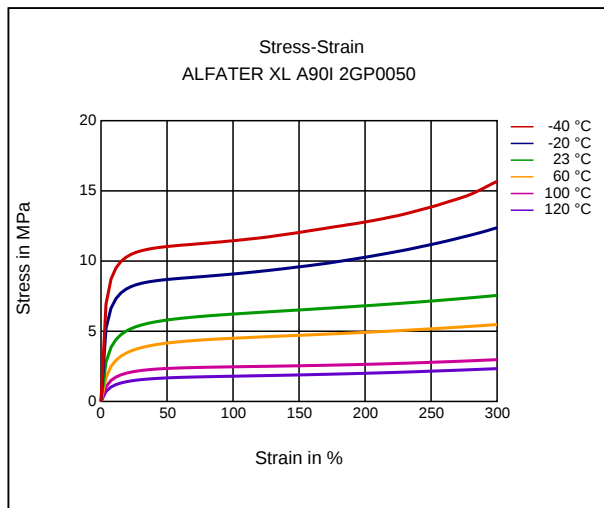
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### Diagrams

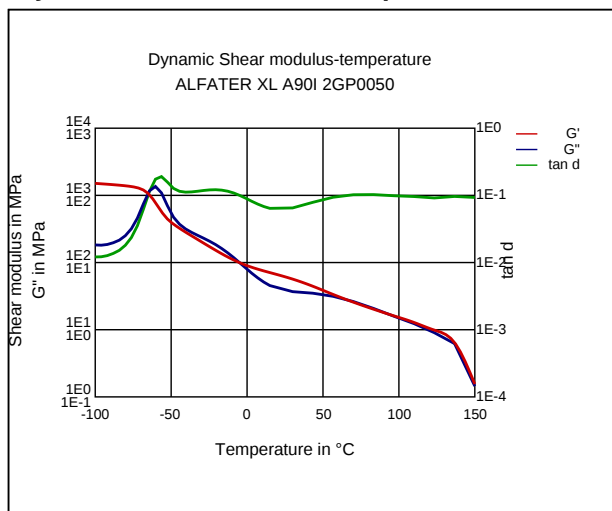
Viscosity-shear rate



Stress-Strain



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)

