

## Technical Data Sheet - Preliminary Product

❖ **Alfater XL<sup>®</sup>****MOCOM****ALFATER XL A70I 4PA0010**

|                      |                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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     | 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<br>for 2-4 h<br>max. moisture content <0,10 %                                                                               |
| Processing Injection Moulding | melt temperature 215-260 °C<br>mould temperature <70 °C<br>injection speed high<br>back pressure (hydraulic) >3 bar<br>holding pressure 50-70% of injection pressure |
| Storage                       | dry, protected from light<br>not above 30°C<br>tightly sealed                                                                                                        |

| Properties                                   | Value | Dimension | Test Norm |
|----------------------------------------------|-------|-----------|-----------|
| <b>Mechanical Properties</b>                 |       |           |           |
| Tensile Stress at 100% Elongation (Type 2)   | 3.5   | MPa       | ISO 37    |
| Tensile Strength (Type 2)                    | 5.3   | MPa       | ISO 37    |
| Tear Strength (Method Ba)                    | 25    | kN/m      | ISO 34-1  |
| Elongation at Break (Type 2)                 | 325   | %         | ISO 37    |
| Shore Hardness A (15s)                       | 70    | -         | ISO 868   |
| <b>Thermal Properties</b>                    |       |           |           |
| Compression Set (22h / 100°C / 25% / Type A) | 50    | %         | ISO 815   |
| Compression Set (22h / 70°C / 25% / Type A)  | 40    | %         | ISO 815   |
| Compression Set (72h / 22°C / 25% / Type A)  | 25    | %         | ISO 815   |
| Compression Set (72h / 125°C / 25% / Type A) | 63    | %         | ISO 815   |
| <b>Rheological Properties</b>                |       |           |           |
| Spiral Flow (2 mm wall thickness)            | 70    | cm        | -         |

## Technical Data Sheet - Preliminary Product

# ❖ Alfater XL<sup>®</sup>

# MOCOM

## ALFATER XL A70I 4PA0010

### Physical Properties

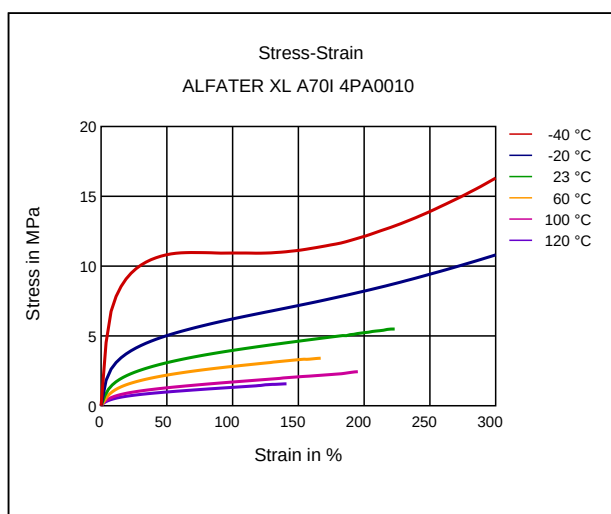
|         |     |                   |          |
|---------|-----|-------------------|----------|
| Density | 930 | kg/m <sup>3</sup> | ISO 1183 |
|---------|-----|-------------------|----------|

### Flammability

|                               |        |   |              |
|-------------------------------|--------|---|--------------|
| Glow Wire (GWFI, 700 °C, 1mm) | passed | - | DIN EN 60695 |
| Glow Wire (GWFI, 750 °C, 2mm) | passed | - | DIN EN 60695 |

### Diagrams

#### Stress-Strain



#### Dynamic Shear modulus-temperature

