

## Technical Data Sheet - Preliminary Product

❖ **Alfater XL<sup>®</sup>****MOCOM****ALFATER XL A80I 2FE0002**

|                     |                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base Polymer        | Thermoplastic Vulcanisate (PP+EPDM)                                                                                                                  |
| Colour              | black                                                                                                                                                |
| Service Temperature | max. range (depending on load, geometry, etc.) -40-125 °C                                                                                            |
| Special Features    | high density,noise dampening,good weathering resistance,resistant to alkalis,good ozone resistance,good hot air resistance,good hydrolysis resistant |
| Market Segment      | Automotive,Machinery,building and construction,electrical and electronic                                                                             |
| Application Area    | injection moulded parts                                                                                                                              |

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|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer<br>for 2-4 h<br>max. moisture content <0,10 %     |
| Processing Injection Moulding | melt temperature 195-230 °C<br>mould temperature 10-70 °C<br>injection speed high |
| 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)   | 2.2       | MPa               | ISO 37    |
| Tensile Strength (Type 2)                    | 2.5       | MPa               | ISO 37    |
| Tear Strength (Method Ba)                    | 17        | kN/m              | ISO 34-1  |
| Elongation at Break (Type 2)                 | 225       | %                 | ISO 37    |
| Shore Hardness A (15s)                       | 80        | -                 | ISO 868   |
| <b>Thermal Properties</b>                    |           |                   |           |
| Compression Set (22h / 100°C / 25% / Type A) | 65        | %                 | ISO 815   |
| Compression Set (22h / 70°C / 25% / Type A)  | 50        | %                 | ISO 815   |
| Compression Set (72h / 22°C / 25% / Type A)  | 55        | %                 | ISO 815   |
| Compression Set (72h / 125°C / 25% / Type A) | 75        | %                 | ISO 815   |
| <b>Rheological Properties</b>                |           |                   |           |
| Shrinkage (lengthwise, 24h)                  | 0.7 - 1.1 | %                 | ISO 294-4 |
| Shrinkage (lateral, 24h)                     | 0.5 - 0.9 | %                 | ISO 294-4 |
| Spiral Flow (2 mm wall thickness)            | 75        | cm                | -         |
| <b>Physical Properties</b>                   |           |                   |           |
| Density                                      | 2100      | kg/m <sup>3</sup> | ISO 1183  |

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### 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 |