

## Technical Data Sheet

# ❖ Alfater XL®



## ALFATER XL A55I 2GP0000

### MOCOM

|                      |                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base Polymer         | Thermoplastic Vulcanisate (PP+EPDM)                                                                                                                                    |
| Colour               | natural color                                                                                                                                                          |
| Service Temperature  | max. range (depending on load, geometry, etc.) -40-125 °C                                                                                                              |
| Special Features     | good recovery, 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, Machinery, Furniture                                                                 |
| Application Area     | injection moulded parts                                                                                                                                                |
| Typical Applications | seals, sealing lip, handles, soft touch elements, impact protection / shock absorber, protection caps, cable ducts, 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 60-70 °C<br>for 2-4 h<br>max. moisture content <0,10 %                                                                                 |
| Processing Injection Moulding | melt temperature 195-230 °C<br>mould temperature 10-60 °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>not above 30°C<br>tightly sealed<br>do not stack the pallets                                                                              |

| Properties                                    | Value | Dimension | Test Norm |
|-----------------------------------------------|-------|-----------|-----------|
| <b>Mechanical Properties</b>                  |       |           |           |
| Tensile Stress at 100% Elongation (Type 2)    | 1.9   | MPa       | ISO 37    |
| Tensile Strength (Type 2)                     | 4.7   | MPa       | ISO 37    |
| Tear Strength (Method Ba)                     | 22    | kN/m      | ISO 34-1  |
| Elongation at Break (Type 2)                  | 450   | %         | ISO 37    |
| Shore Hardness A (15s)                        | 55    | -         | ISO 868   |
| <b>Thermal Properties</b>                     |       |           |           |
| Compression Set (22h / 100 °C / 25% / Type A) | 41    | %         | ISO 815   |
| Compression Set (22h / 70 °C / 25% / Type A)  | 35    | %         | ISO 815   |
| Compression Set (72h / 22 °C / 25% / Type A)  | 25    | %         | ISO 815   |
| Compression Set (72h / 125 °C / 25% / Type A) | 60    | %         | ISO 815   |

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#### Electrical Properties

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

#### Rheological Properties

|                                   |    |    |   |
|-----------------------------------|----|----|---|
| Spiral Flow (2 mm wall thickness) | 38 | cm | - |
|-----------------------------------|----|----|---|

#### Physical Properties

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

#### Ageing Properties

|                             |        |   |             |
|-----------------------------|--------|---|-------------|
| Ozone resistance (method A) | passed | - | ISO 1431-1A |
|-----------------------------|--------|---|-------------|