

## Technical Data Sheet

# ❖ Alfater XL®

# MOCOM

## ALFATER XL A60I 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 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)   | 2.4   | MPa       | ISO 37    |
| Tensile Strength (Type 2)                    | 5.5   | MPa       | ISO 37    |
| Tear Strength (Method Ba)                    | 22    | kN/m      | ISO 34-1  |
| Elongation at Break (Type 2)                 | 350   | %         | ISO 37    |
| Shore Hardness A (15s)                       | 60    | -         | ISO 868   |
| <b>Thermal Properties</b>                    |       |           |           |
| Compression Set (22h / 100°C / 25% / Type A) | 30    | %         | ISO 815   |
| Compression Set (22h / 70°C / 25% / Type A)  | 31    | %         | ISO 815   |
| Compression Set (72h / 22°C / 25% / Type A)  | 17    | %         | ISO 815   |
| Compression Set (72h / 125°C / 25% / Type A) | 50    | %         | ISO 815   |

## Technical Data Sheet

# ❖ Alfater XL<sup>®</sup>

# MOCOM

## ALFATER XL A60I 2GP0050

### Electrical Properties

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

### Rheological Properties

|                                   |           |    |           |
|-----------------------------------|-----------|----|-----------|
| Shrinkage (lengthwise, 24h)       | 2.7 - 3.1 | %  | ISO 294-4 |
| Shrinkage (lateral, 24h)          | 1.2 - 1.6 | %  | ISO 294-4 |
| Spiral Flow (2 mm wall thickness) | 39        | cm | -         |

### Physical Properties

|         |     |                   |          |
|---------|-----|-------------------|----------|
| Density | 940 | kg/m <sup>3</sup> | ISO 1183 |
|---------|-----|-------------------|----------|

### Ageing Properties

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

### Flammability

|                                 |        |   |                     |
|---------------------------------|--------|---|---------------------|
| Glow Wire (GWFI, 650 °C, 2.0mm) | passed | - | DIN EN 60695        |
| Fire behavior FMVSS (2.0 mm)    | passed | - | FMVSS 302/DIN 75200 |

## Diagrams

### Dynamic Shear modulus-temperature

