

## Technical Data Sheet



### TEDUR L 9412-3.2

## MOCOM

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Base Polymer           | Polyphenylene Sulphide                                                        |
| Filler/Additive System | 10 % carbon fibres, 10 % graphite, 10 % PTFE                                  |
| Special Features       | reduced surface resistivity, electrically conductive, improved sliding / wear |
| Market Segment         | Automotive, Machinery, electrical and electronic                              |
| Typical Applications   | functional components, housings, bearings and sliding elements                |

|                               |                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 130-140 °C<br>for 2-4 h<br>dependant on moisture content<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 320-340 °C<br>mould temperature >140 °C                                                                  |
| Storage                       | dry, protected from light                                                                                                 |

| Properties                          | Value | Dimension         | Test Norm     |
|-------------------------------------|-------|-------------------|---------------|
| <b>Mechanical Properties</b>        |       |                   |               |
| Flexural Modulus                    | 11900 | MPa               | ISO 178       |
| Flexural Strength                   | 180   | MPa               | ISO 178       |
| Flexural Deflection (Maximum Force) | 1.7   | %                 | ISO 178       |
| Tensile Modulus                     | 13900 | MPa               | ISO 527       |
| Tensile Strength at Break           | 135   | MPa               | ISO 527       |
| Tensile Elongation at Break         | 1.3   | %                 | ISO 527       |
| Impact Strength (Charpy, 23 °C)     | 20    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <b>Thermal Properties</b>           |       |                   |               |
| HDT / A (1,8 MPa)                   | 273   | °C                | ISO 75-1/-2   |
| DSC (Melt Point)                    | 280   | °C                | ISO 11357     |
| <b>Electrical Properties</b>        |       |                   |               |
| Surface Resistance                  | 150   | Ohm               | IEC 62631-3-2 |
| <b>Physical Properties</b>          |       |                   |               |
| Density                             | 1490  | kg/m <sup>3</sup> | ISO 1183      |