

## Technical Data Sheet



### TEDUR L 9510-1 U

## MOCOM

|                        |                        |
|------------------------|------------------------|
| Base Polymer           | Polyphenylene Sulphide |
| Filler/Additive System | 40 % glass fibres      |
| Special Features       | high stiffness         |
| Application Area       | pump components        |
| Typical Applications   | various                |

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 130-140 °C<br>for 2-4 h<br>dependant on moisture content |
| 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                    | 14000  | MPa       | ISO 178      |
| Flexural Strength                   | 225    | MPa       | ISO 178      |
| Flexural Deflection (Maximum Force) | 1.7    | %         | ISO 178      |
| Tensile Modulus                     | 15000  | MPa       | ISO 527      |
| Tensile Strength at Break           | 155    | MPa       | ISO 527      |
| Tensile Elongation at Break         | 1.4    | %         | ISO 527      |
| Impact Strength (Charpy, 23°C)      | 30     | kJ/m²     | ISO 179/1eU  |
| <b>Thermal Properties</b>           |        |           |              |
| HDT / A (1,8 MPa)                   | 275    | °C        | ISO 75-1/-2  |
| DSC (Melt Point)                    | 280    | °C        | ISO 11357    |
| <b>Physical Properties</b>          |        |           |              |
| Density                             | 1670   | kg/m³     | ISO 1183     |
| <b>Flammability</b>                 |        |           |              |
| Flammability (1.5 mm)               | V-0    | class     | UL 94        |
| Glow Wire (GWFI, 960°C, 1.0mm)      | passed | -         | DIN EN 60695 |
| Glow Wire (GWFI, 960°C, 2.0mm)      | passed | -         | DIN EN 60695 |