

## Technical Data Sheet



### TEDUR L 9107-7

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| Base Polymer           | Polyphenylene Sulphide                                                                   |
| Filler/Additive System | 40 % glass fibres                                                                        |
| Special Features       | injection moulding grade,high toughness,reduced flash,increased burst strength,low odour |
| Market Segment         | Automotive,Machinery,various                                                             |
| Application Area       | pump components                                                                          |
| Typical Applications   | housings,pump impellers,high pressure vessels                                            |

Pre-Drying Conditions      in a dry air (dessiccant) dryer 130-140 °C  
up to 2-4 h  
dependant on moisture content

Processing Injection Moulding      melt temperature 320-340 °C  
mould temperature >140 °C

Storage      dry, protected from light

| Properties                          | Value  | Dimension         | Test Norm        |
|-------------------------------------|--------|-------------------|------------------|
| <b>Mechanical Properties</b>        |        |                   |                  |
| Flexural Modulus                    | 14500  | MPa               | ISO 178          |
| Flexural Strength                   | 285    | MPa               | ISO 178          |
| Flexural Deflection (Maximum Force) | 2.2    | %                 | ISO 178          |
| Tensile Modulus                     | 15500  | MPa               | ISO 527          |
| Tensile Strength at Break           | 200    | MPa               | ISO 527          |
| Tensile Elongation at Break         | 1.8    | %                 | ISO 527          |
| Impact Strength (Charpy, 23°C)      | 45     | kJ/m <sup>2</sup> | 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>Electrical Properties</b>        |        |                   |                  |
| Surface Resistance                  | 1E12   | Ohm               | DIN EN 62631-3-2 |
| <b>Physical Properties</b>          |        |                   |                  |
| Density                             | 1650   | kg/m <sup>3</sup> | ISO 1183         |
| <b>Flammability</b>                 |        |                   |                  |
| Flammability (1.5 mm)               | V-0    | class             | UL 94            |
| Yellow Card available               | yes    | -                 | -                |
| Glow Wire (GWFI, 960 °C, 1.0mm)     | passed | -                 | DIN EN 60695     |
| Glow Wire (GWFI, 960 °C, 2.0mm)     | passed | -                 | DIN EN 60695     |