

## Technical Data Sheet



### TEDUR L 9220-1



|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Base Polymer           | Polyphenylene Sulphide                                 |
| Filler/Additive System | 65 % glass fibre/mineral                               |
| Special Features       | high stiffness,good hydrolysis resistant,oil resistant |
| Market Segment         | Automotive,Machinery                                   |
| Application Area       | injection moulded parts                                |
| Typical Applications   | highly stressed parts                                  |

|                               |                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 130-150 °C<br>for <3 h<br>in an air circulating dryer 130-150 °C<br>for <3 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                    | 16500     | MPa       | ISO 178      |
| Flexural Strength                   | 200       | MPa       | ISO 178      |
| Flexural Deflection (Maximum Force) | 1.2       | %         | ISO 178      |
| Tensile Modulus                     | 16500     | MPa       | ISO 527      |
| Tensile Strength at Break           | 115       | MPa       | ISO 527      |
| Tensile Elongation at Break         | 1         | %         | ISO 527      |
| Impact Strength (Charpy, 23°C)      | 22        | 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>Rheological Properties</b>       |           |           |              |
| Shrinkage (lengthwise, 24h)         | 0.2 - 0.4 | %         | ISO 294-4    |
| Shrinkage (lateral, 24h)            | 0.4 - 0.6 | %         | ISO 294-4    |
| <b>Physical Properties</b>          |           |           |              |
| Density                             | 1980      | kg/m³     | ISO 1183     |
| <b>Flammability</b>                 |           |           |              |
| Flammability (1.5 mm)               | V-0       | class     | UL 94        |
| Yellow Card available               | yes       | -         | -            |
| Glow Wire (GWFI, 960°C, 2.0mm)      | passed    | -         | DIN EN 60695 |