

## Technical Data Sheet



### TEDUR L 9401-1

## MOCOM

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Base Polymer           | Polyphenylene Sulphide                               |
| Filler/Additive System | 40 % glass fibres, 5 % PTFE                          |
| Special Features       | improved sliding / wear, high stiffness              |
| Market Segment         | Automotive, Machinery                                |
| Typical Applications   | bearings and sliding elements, functional components |

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| 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                                          | 245   | MPa                     | ISO 178          |
| Flexural Deflection (Maximum Force)                        | 2     | %                       | ISO 178          |
| Tensile Modulus                                            | 14500 | MPa                     | ISO 527          |
| Tensile Strength at Break                                  | 165   | MPa                     | ISO 527          |
| Tensile Elongation at Break                                | 1.5   | %                       | ISO 527          |
| Impact Strength (Charpy, 23°C)                             | 38    | kJ/m <sup>2</sup>       | ISO 179/1eU      |
| <b>Thermal Properties</b>                                  |       |                         |                  |
| HDT / A (1,8 MPa)                                          | 277   | °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                                                    | 1700  | kg/m <sup>3</sup>       | ISO 1183         |
| <b>Tribologic Properties</b>                               |       |                         |                  |
| Coefficient of Sliding Friction $\mu$ (pv = 5*1 MPa*m/s)   | 0.36  | -                       | ASTM G 137       |
| Coefficient of Sliding Friction $\mu_H$ (pv = 5*1 MPa*m/s) | 0.27  | -                       | ASTM G 137       |
| Specific Wear Rate ws (pv = 5*1 MPa*m/s)                   | 0.82  | E-6 mm <sup>3</sup> /Nm | ASTM G 137       |
| Linear Wear Rate w (pv = 5*1 MPa*m/s)                      | 14.8  | $\mu\text{m}/\text{h}$  | ASTM G 137       |

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 **Tedur<sup>®</sup>**

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### Flammability

Flammability (1.5 mm)

Glow Wire (GWFI, 960°C, 2.0mm)

V-0

passed

class

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UL 94

DIN EN 60695