

Technical Data Sheet



Torelina A504 X90

40% Glass fibre filled PPS

| Property | | Test Method (ASTM) | Units | Grade | |
|-------------------------|--|-----------------------|-----------------------|------------------------|--------------|
| | | | | 40% GF PPS | |
| | | | | A 504 X90 | |
| Physical | Specific Gravity | D 792 | - | 1.67 | |
| | Water Absorption | D 570 | % | 0.02 | |
| Thermal | Melting Point | DSC Method | °C | 278 | |
| | HDT | 1.82 MPa | °C | >260 | |
| | Linear Thermal Expansion (Long & transverse) | D 696 | X10 ⁻⁵ /°C | 2.3 & 3.2 | |
| | Flammability | UL-94 | - | v0 | |
| Mechanical | Tensile Strength | D 638 | MPa | 207 | |
| | Elongation at Break | D 638 | % | 3.6 | |
| | Flexural Strength | D 790 | MPa | 275 | |
| | Flexural Modulus | D 790 | GPa | 13.3 | |
| | Shear Strength | D 732 | MPa | 80 | |
| | Izod Impact 23°C | V-notched | D 256 | J/m | 130 |
| | | unnotched | | J/m | 55 |
| | Rockwell Hardness | D 785 | - | R122 | |
| Coefficient of Friction | vs. - steel | D 1894 | - | 0.25 | |
| Electrical | Dielectric Strength (3mm t) | D 149 | MV/m | 21 | |
| | Volume Resistivity | D 257 | Ω.m | 10¹⁶ | |
| | Dielectric Constant | 50Hz 10 Hz | D 150 | - | |
| | | | | - | 3.8 |
| | Dissipation Factor | 50Hz 10 Hz | D 150 | - | |
| | | | | - | 0.002 |
| Arc Resistance | D 495 | sec. | 127 | | |
| Tracking Index | IEC (CTI) | V | | | |
| Moldability | Mould Shrinkage (3mmt) | Machine direction | Toray | % | 0.20 |
| | | Transverse direction | | % | 0.70 |

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products. Prospective users should determine the suitability of materials before adopting them on a commercial scale.

Features

- Excellent thermal stability
- Excellent chemical resistance
- UL 94 v0
- High Stiffness / High Strength