

Technical Data Sheet

Schuladur PCR GF30 K1947 BLK968001



Polybutylene Terephthalate + PET

Product Description

30% glass fibre reinforced PBT/PET blend Standard color is black, color matching for dark colors possible. Automotive structural applications are possible. Data Quality Level according to VDA 284: DQL Automotive

Processing Method Injection Molding

Filler/Reinforcement Glass Fiber, 30%

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------------|----------------------|
| Physical | | | |
| Melt Volume Flow Rate, (260 °C/2.16 kg) | 20 | cm ³ /10 min | ISO 1133 |
| Density, (Method A) | 1.55 | g/cm ³ | ISO 1183 |
| Apparent (Bulk) Density | 0.60 to 0.80 | g/cm ³ | ISO 60 |
| Mechanical | | | |
| Tensile Strain at Break, (Type 1A, 5 mm/min) | 2.5 | % | ISO 527-2 |
| Tensile Stress at Break, (Type 1A, 5 mm/min) | 145 | MPa | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 10500 | MPa | ISO 527-1 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 8.0 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 8.0 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 55 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 50 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 225 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 205 | °C | ISO 75-2/A |
| Electrical | | | |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| Dielectric Strength | 22 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index (CTI) | 250 | V | IEC 60112 |
| Surface Resistivity | >1.0E+15 | ohm | IEC 60093 |
| Flammable | | | |
| Burning Rate | | | |
| (2.00 mm) | 30 | mm/min | FMVSS 302 |
| (2.00 mm) | 30 | mm/min | ISO 3795 |
| Glow Wire Flammability Index, (2.0 mm) | 650 | °C | IEC 60695-2-12 |
| Additional Information | | | |
| Water Absorption 23C/50RH | 0.3 | % | ISO 62 |
| UL Information | | | |
| Flammability Classification, (1.5 mm) | HB | | IEC 60695-11-10, -20 |