

SCHULADUR® A GF 30 SF

Polybutylene Terephthalate

A. Schulman Europe

Message:

30% glass fibre reinforced PBT-grade, very high flow

| General Information | | | |
|---|---|------------------------|----------------|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| Processing Method | Injection molding | | |
| Resin ID (ISO 1043) | PBT-GF | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.50 | g/cm ³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (250°C/2.16 kg) | 20.0 | cm ³ /10min | ISO 1133 |
| Water Absorption (23°C, 24 hr) | 0.30 | % | ISO 62 |
| Hardness | Nominal Value | Unit | Test Method |
| Ball Indentation Hardness (H 358/30) | 205 | MPa | ISO 2039-1 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 10000 | MPa | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 130 | MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 2.5 | % | ISO 527-2/1A/5 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | 7.0 | kJ/m ² | ISO 179/1eA |
| 23°C | 8.0 | kJ/m ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -30°C | 50 | kJ/m ² | ISO 179/1eU |
| 23°C | 55 | kJ/m ² | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | 218 | °C | ISO 75-2/Bf |
| 1.8 MPa, not annealed | 207 | °C | ISO 75-2/Af |
| Vicat Softening Temperature | | | |
| -- | 202 | °C | ISO 306/A50 |
| -- | 223 | °C | ISO 306/B50 |
| Ball Pressure Test (200°C) | Pass | | IEC 60695-10-2 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+16 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+15 | ohms · cm | IEC 60093 |
| Comparative Tracking Index | 300 | V | IEC 60112 |

| Flammability | Nominal Value | Unit | Test Method |
|--------------------------------|---------------|--------|----------------------|
| Burning Rate (2.00 mm) | 38 | mm/min | ISO 3795 |
| Flammability Classification | | | IEC 60695-11-10, -20 |
| 1.50 mm | HB | | IEC 60695-11-10, -20 |
| 3.00 mm | HB | | IEC 60695-11-10, -20 |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 1.50 mm | 725 | °C | IEC 60695-2-12 |
| 3.00 mm | 725 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 1.50 mm | 750 | °C | IEC 60695-2-13 |
| 3.00 mm | 750 | °C | IEC 60695-2-13 |
| Oxygen Index | 20 | % | ISO 4589-2 |

Additional Information

- 1.) Not for use in food contact applications2.) Not for use in medical or pharmaceutical applications

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