# SLOVASTER® B1 GF 10 MI

Polybutylene Terephthalate

Plastcom

## Message:

PBT for injection molding, chemically reinforced with 10% glass fiber. It features excellent strength characteristics such as tensile modulus, flexural strength, tensile strength, high toughness even at low temperatures. Does not absorb water so that it retains identical features in a wet environment. The melt has a very good rheology, which enables to produce the extremely rugged products that are difficult to track leaks. Shrinkage anisotropy compared to the PA is much better, which results in the production of circular, cylindrical or other cavity-based products. Use for automotive, electrical and mechanical engineering. Connectors wiring harness, automotive door locks, cable rod, disguises, and other fixtures. Supplied in natural finish and a range of RAL color scale.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,10% Filler by Weight | | |
| Additive | Impact Modifier | | |
| Features | Chemically Coupled<br>Good Strength<br>Impact Modified<br>Low Temperature Toughness<br>Low to No Water Absorption<br>Ultra High Toughness | | |
| Uses | Automotive Applications<br>Connectors<br>Electrical/Electronic Applications<br>Engineered Applications | | |
| Appearance | Colors Available<br>Natural Color | | |
| Processing Method | Injection Molding | | |
| Resin ID (ISO 1043) | PBT | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.36 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 10 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | STM 64 0808 |
| Across Flow | 1.1 | % | |
| Flow | 1.0 | % | |
| Water Content | 0.050 | % | ISO 960 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 5000 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 80.0 | MPa | ISO 527-2 |

| | | | |
|---|---|---|---|
| Tensile Strain (Yield) | 3.5 | % | ISO 527-2 |
| Flexural Modulus | 3350 | MPa | ISO 178 |
| Flexural Stress | 115 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179 |
| -20°C | 5.0 | $kJ/m^2$ | |
| 23°C | 7.0 | $kJ/m^2$ | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -20°C | 30 | $kJ/m^2$ | |
| 23°C | 50 | $kJ/m^2$ | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 170 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 205 | °C | ISO 306/B |
| Melting Temperature (DSC) | 200 to 220 | °C | ISO 3146 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+15 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+17 | ohms·cm | IEC 60093 |
| Electric Strength | 28 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index (Solution A) | 350 | V | IEC 60112 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating | HB | | UL 94 |
| Glow Wire Ignition Temperature | 750 | °C | IEC 60695-2-13 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 120 | °C | |
| Drying Time | 4.0 | hr | |
| Processing (Melt) Temp | 250 to 270 | °C | |
| Mold Temperature | 50.0 to 80.0 | °C | |
| Injection Pressure | 60.0 to 100 | MPa | |



Recommended distributors for this material

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