

Product Texts

Injection Molding, 10% Glass Reinforced, Improved flow, Improved Impact

ISO 1043 PBT-GF10

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------|------------------------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 30 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | - |
| Load | 2.16 | kg | - |
| ^[C] Molding shrinkage, parallel | 1.2 | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 1.0 | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 4350 | MPa | ISO 527 |
| ^[C] Stress at break | 80 | MPa | ISO 527 |
| ^[C] Strain at break | 4 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 40 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | 30 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 10 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 10 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 225 | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 185 | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 215 | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 60 | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 140 | E-6/K | ISO 11359-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|---|-------|------|---------------|
| ISO Data | | | |
| ^[C] Comparative tracking index | 600 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| ^[C] Density | 1400 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

| Test specimen production | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| ^[C] Injection Molding, melt temperature | 260 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Increased electrical conductivity, High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America,
Near East/Africa

Other text information

Injection molding

PREPROCESSING

Residual moisture content: 0.00 - 0.02 %

Drying temperature circulating air dryer: 120 °C

Drying time circulating air dryer: 4 - 8 h

PROCESSING

Melt temperature (Tmin - Tmax): 250 - 270 °C

Mold temperature: 80 - 100 °C