

Product Texts

PBT flame retardant injection moulding grade. 15% glass fibre reinforced. Natural colour.

Suitable for parts requiring fire retardancy along with improved stiffness. Rated V-0 according to UL-94.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.7 | % | 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 | 6500 | MPa | ISO 527 |
| ^[C] Stress at break | 105 | MPa | ISO 527 |
| ^[C] Strain at break | 3 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 50 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 9 | 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] Burning Behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| Yellow Card available | yes | - | - |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| ^[C] Density | 1560 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Additives

Release agent

Special Characteristics

Flame retardant, 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

The material is delivered in moisture-proof packaging. It is important to dry the material prior to processing: maximum recommended water content is 0.02%. Typical conditions with a desiccant drier: temperature 120 °C, dew point -40 °C or below, time 2-4 h or more. Avoid excessive shear rates and high thermal stresses for better processing. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature
250 - 280°C

Mold Temperature
80 - 90°C

Injection Speed
medium-high