

Product Texts

PA6 25% glass fibre reinforced flame retardant injection moulding grade. Halogen and red phosphorus free. Orange colour (comparable to RAL 2003) stable at high temperature.

Suitable for parts requiring fire retardancy along with good stiffness. Rated V-2 according to UL-94.

| Mechanical properties | dry / cond | Unit | Test Standard |
|------------------------------------------------------|-------------------|-------------------|----------------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 6100 / - | MPa | ISO 527 |
| ^[C] Stress at break | 80 / - | MPa | ISO 527 |
| ^[C] Strain at break | 3.1 / - | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 48 / - | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 3.5 / - | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|------------------------------------------------------|-------------------|-------------|----------------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 220 / * | °C | ISO 11357-1/-3 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / * | mm | - |
| Yellow Card available | yes / * | - | - |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|-------------------------------------------|-------------------|-------------|----------------------|
| ISO Data | | | |
| ^[C] Volume resistivity | 1E13 / - | Ohm*m | IEC 62631-3-1 |
| ^[C] Comparative tracking index | 550 / - | - | IEC 60112 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|-------------------|-------------------|----------------------|
| ^[C] Water absorption | 5.5 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 1.3 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1380 / - | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules

Additives

Release agent

Special Characteristics

Flame retardant, Halogen-free, Phosphorus-free, 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 ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. 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

240 - 280°C

Mold Temperature

80 - 90°C

Injection Speed

medium-high