

Product Texts

Special PA 30% glass fibre reinforced, high flow injection moulding grade. Heat stabilized. Drinking water and food contact. Black colour.

General purpose metal replacement product with good resistance to hydrolysis, enhanced mechanical properties after moisture pick-up. Specifically intended for use in applications in civil and industrial water management as well as appliances and consumer goods. Suitable for parts requiring high stiffness and good mechanical resistance along with high surface quality and superior gloss.

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|------------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.3 / * | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 0.7 / * | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 10000 / - | MPa | ISO 527 |
| ^[C] Stress at break | 180 / - | MPa | ISO 527 |
| ^[C] Strain at break | 2.6 / - | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 57 / - | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 9 / - | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 260 / * | °C | ISO 11357-1/-3 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / * | mm | - |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------|------------|-------------------|---------------|
| ^[C] Density | 1380 / - | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Black

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

Features

High Gloss

Chemical Resistance

Hydrolytically Stable

Certifications

Food contact, Drinking water contact

Applications

General Purpose

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
280 - 300°C

Mold Temperature
80 - 100°C

Injection Speed
medium-high