

Product Texts

40% long glass fibre reinforced polyamide 6.
 For moulded parts with high requirements to impact, stiffness
 and flexural strength. Granulate length 10 to 14 mm.

| Mechanical properties | dry / cond | Unit | Test Standard |
|---------------------------------------|---------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 12400 / 8600 | MPa | ISO 527 |
| Stress at break | 220 / 140 | MPa | ISO 527 |
| Strain at break | 2.3 / 2.5 | % | ISO 527 |
| Charpy impact strength, +23°C | 80 / 80 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 70 / - | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 25 / 25 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 25 / - | kJ/m ² | ISO 179/1eA |

| Thermal properties | dry / cond | Unit | Test Standard |
|--|-------------------|-------------|----------------------|
| ISO Data | | | |
| Melting temperature, 10°C/min | 220 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 220 / * | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | - |

| Other properties | dry / cond | Unit | Test Standard |
|-------------------------|-------------------|-------------------|----------------------|
| Water absorption | 6 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.6 / * | % | Sim. to ISO 62 |
| Density | 1450 / - | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 4 - 8 | h | - |
| Processing humidity | ≤0.1 | % | - |
| Mold temperature | 60 - 100 | °C | - |
| Feed temperature | 80 - 100 | °C | - |
| Zone 1 | 270 - 290 | °C | - |
| Nozzle temperature | 265 - 285 | °C | - |
| Maximum residence time | 10 | min | - |

Characteristics

Processing
 Injection Molding

Features
 Long fiber reinforced

Delivery form
 Pellets

Regional Availability
 Europe

Special Characteristics
 High impact or impact modified