

Technical Data Sheet



ROTEC® ABS 1002 GF10

Injection moulding grade, 10% glass fibre reinforced

| <i>Properties</i> | <i>Unit</i> | <i>Test Method</i> | <i>Test Condition</i> | <i>Value*</i> |
|--|------------------------------------|--------------------|--------------------------------|---------------|
| <i>Mechanical</i> | | | | |
| Tensile Modulus | MPa | DIN EN ISO 527 | 23°C 1 mm/min | 4,800 |
| Tensile Strength | MPa | DIN EN ISO 527 | 23°C 5 mm/min | 83 |
| Elongation at Break | % | DIN EN ISO 527 | 23°C 5 mm/min | 5 |
| Flexural Modulus | MPa | DIN EN ISO 178 | 23°C 2 mm/min | 4,200 |
| Flexural Strength | MPa | DIN EN ISO 178 | 23°C 2 mm/min | 116 |
| Notched Impact Strength (Charpy) | kJ/m ² | DIN EN ISO 179/1eA | 80 x 10 x 4 mm 23°C / -30°C | 7 / 3 |
| <i>Physical</i> | | | | |
| Density | g/cm ³ | DIN EN ISO 1183 | 23°C, 50% RH | 1.11 |
| Water Absorption | % | DIN EN ISO 62 | 23°C, 24 h | 0.3 |
| <i>Thermal</i> | | | | |
| Heat Distortion Temperature A | °C | DIN EN ISO 75/1 | 1.8 MPa | 89 |
| Vicat Softening Temperature B 50 | °C | DIN EN ISO 306 | 50 N 50°C/h | 105 |
| Melt Mass Flow Rate (MFR) | g/10 min | DIN EN ISO 1133 | 220°C, 10 kg | 10 |
| Thermal Conductivity | W/(K·m) | DIN 52612 | -- | - |
| Thermal Coefficient of Linear Expansion | 10 ⁻⁴ · K ⁻¹ | ISO 11359-2 | 23°C - 55°C | - |
| Processing Shrinkage | % | DIN EN ISO 294-4 | 23°C | 0.2 - 0.4 |
| Flammability (File No.: E148878 → UL listed) | -- | UL94 | 1.5 mm | HB |

* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.

ROMIRA GMBH