

SLOVAMID® 6 GF 10 GB 20

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically strengthened with 10% glass fibre and 20% glass beads. Application: impacted mouldings and mouldings with high strength applied in automotive, electrical, engineering and consumer-goods industry, eg.: grips for electro tools, hobby tools, gears, cases of the electrotools, cooling screws of blowers, electromotors, carrying parts in the automotive industry. With the increasing content of GF also the toughness, bending and tensile strength increase as well as the heat application increases up to 250°C and the shrinkage decreases. Delivered in natural mode and in the full RAL colour scale.

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Bead,20% Filler by Weight | | |
| | Glass Fiber,10% Filler by Weight | | |
| Features | Chemically Coupled | | |
| | High Strength | | |
| Uses | Automotive Applications | | |
| | Consumer Applications | | |
| | Electrical/Electronic Applications | | |
| | Gears | | |
| | Power/Other Tools | | |
| Appearance | Colors Available | | |
| | Natural Color | | |
| Processing Method | Injection Molding | | |
| Resin ID (ISO 1043) | PA 6 | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.34 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 8.0 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | STM 64 0808 |
| Across Flow | 2.0 | % | |
| Flow | 1.4 | % | |
| Water Content | 0.15 | % | ISO 960 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 5800 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 102 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 3.0 | % | ISO 527-2 |
| Flexural Modulus | 5200 | MPa | ISO 178 |
| Flexural Stress | 172 | MPa | ISO 178 |

| Impact | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|----------------|
| Charpy Notched Impact Strength | | | ISO 179 |
| -20°C | 5.0 | kJ/m ² | |
| 23°C | 5.0 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -20°C | 42 | kJ/m ² | |
| 23°C | 45 | kJ/m ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 200 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 225 | °C | ISO 306/B |
| Melting Temperature (DSC) | 220 | °C | ISO 3146 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+12 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 | ohms·cm | IEC 60093 |
| Comparative Tracking Index | 400 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Glow Wire Ignition Temperature | 650 | °C | IEC 60695-2-13 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80.0 | °C | |
| Drying Time | 4.0 | hr | |
| Processing (Melt) Temp | 250 to 270 | °C | |
| Mold Temperature | 70.0 to 80.0 | °C | |
| Injection Pressure | 70.0 to 120 | MPa | |

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