# SLOVAMID® 6 GF 15 TS

Polyamide 6

Plastcom

## Message:

PA 6 for injection moulding, chemically reinforced with 15 % glass fibre, heat stabilized, mouldings resistant against longtime heat impact up to 170°C. Used in environment, where long-time temperatures up to 200°C occur. Decrease in tensile
strength by 50% after 5000 hours at 170°C. Application: grips of electrotools, hobby tools, gears, covers of electric appliances. Heat stabilization predetermines these prodcts to an environment with longtime heat stress like eg.: intake piping, cylinder heads, induction coils, carrying parts in the motor fixing in the motor area. Delivered in black colour.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,15% Filler by Weight | | |
| Additive | Heat Stabilizer | | |
| Features | Chemically Coupled<br>Heat Stabilized | | |
| Uses | Appliances<br>Electrical/Electronic Applications<br>Flexible Grips<br>Gears<br>Power/Other Tools | | |
| Appearance | Black | | |
| Processing Method | Injection Molding | | |
| Resin ID (ISO 1043) | PA 6 | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.20 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 3.0 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | STM 64 0808 |
| Across Flow | 1.6 | % | |
| Flow | 0.67 | % | |
| Water Content | 0.15 | % | ISO 960 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 5500 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 90.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 4.0 | % | ISO 527-2 |
| Flexural Modulus | 4500 | MPa | ISO 178 |
| Flexural Stress | 150 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179 |
| -20°C | 2.0 | kJ/m² | |

| | | | |
|---|---|---|---|
| 23°C | 3.0 | kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -20°C | 15 | kJ/m² | |
| 23°C | 20 | kJ/m² | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 200 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 200 | °C | ISO 306/B |
| Melting Temperature (DSC) | 220 | °C | ISO 3146 |
| **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 90.0 | °C | |
| Injection Pressure | 70.0 to 120 | MPa | |



## Recommended distributors for this material

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