

# SLOVAMID® 66 GF 10

Polyamide 66

Plastcom

## Message:

Chemically reinforced with 10% glass fiber, suitable for moldings with high strength and toughness even at low temperatures used in the automotive, engineering and electrical industry. With increasing content of SV increases toughness, tensile strength, flexural modulus and flexural strength, reduces the shrinkage, increase the use of heat to 250°C. Hobby tools, gears, housings electrical devices. Cooling fans, propellers, motors, structural parts in the automotive industry for example. foot mirror, the brake rod. Supplied in natural finish and a range of RAL color scale.

| General Information                        |                                    |                   |             |
|--------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                     | Glass Fiber,10% Filler by Weight   |                   |             |
| Features                                   | Chemically Coupled                 |                   |             |
|                                            | High Strength                      |                   |             |
|                                            | Low Temperature Toughness          |                   |             |
|                                            | Ultra High Toughness               |                   |             |
| Uses                                       | Automotive Applications            |                   |             |
|                                            | Electrical/Electronic Applications |                   |             |
|                                            | Gears                              |                   |             |
|                                            | Housings                           |                   |             |
| Appearance                                 | Colors Available                   |                   |             |
|                                            | Natural Color                      |                   |             |
| Processing Method                          | Injection Molding                  |                   |             |
| Resin ID (ISO 1043)                        | PA 66                              |                   |             |
| Physical                                   | Nominal Value                      | Unit              | Test Method |
| Density                                    | 1.19                               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (275°C/0.325 kg) | 3.0                                | g/10 min          | ISO 1133    |
| Molding Shrinkage                          |                                    |                   | STM 64 0808 |
| Across Flow                                | 1.2                                | %                 |             |
| Flow                                       | 0.80                               | %                 |             |
| Water Content                              | 0.15                               | %                 | ISO 960     |
| Mechanical                                 | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                            | 6000                               | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                     | 110                                | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                     | 2.7                                | %                 | ISO 527-2   |
| Flexural Modulus                           | 5500                               | MPa               | ISO 178     |
| Flexural Stress                            | 170                                | MPa               | ISO 178     |
| Impact                                     | Nominal Value                      | Unit              | Test Method |

|                                                    |               |                   |                |
|----------------------------------------------------|---------------|-------------------|----------------|
| Charpy Notched Impact Strength                     |               |                   | ISO 179        |
| -20°C                                              | 5.0           | kJ/m <sup>2</sup> |                |
| 23°C                                               | 6.0           | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength                   |               |                   | ISO 179        |
| -20°C                                              | 30            | kJ/m <sup>2</sup> |                |
| 23°C                                               | 35            | kJ/m <sup>2</sup> |                |
| Thermal                                            | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 250           | °C                | ISO 75-2/B     |
| Vicat Softening Temperature                        | 250           | °C                | ISO 306/B      |
| Melting Temperature (DSC)                          | 260           | °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                             | 280 to 300    | °C                |                |
| Mold Temperature                                   | 60.0 to 90.0  | °C                |                |
| Injection Pressure                                 | 70.0 to 120   | MPa               |                |

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