

# SLOVAMID® 6 GF 30 FRG 4 LW

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically reinforced with 30% glass fibre, with nonhalogen flame retardant. Main features: flammability in accordance with UL 94 V0 at 1.6 mm, glow wire at 960°C, CTI 500. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural mode and in the full RAL colour scale.

| General Information                       |                                    |                   |             |
|-------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,30% Filler by Weight   |                   |             |
| Additive                                  | Flame Retardant                    |                   |             |
| Features                                  | Chemically Coupled                 |                   |             |
|                                           | Flame Retardant                    |                   |             |
|                                           | Halogen Free                       |                   |             |
| Uses                                      | Electrical/Electronic Applications |                   |             |
| Appearance                                | Colors Available                   |                   |             |
|                                           | Natural Color                      |                   |             |
| Processing Method                         | Injection Molding                  |                   |             |
| Resin ID (ISO 1043)                       | PA 6                               |                   |             |
| Physical                                  | Nominal Value                      | Unit              | Test Method |
| Density                                   | 1.41                               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.0                                | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                                    |                   | STM 64 0808 |
| Across Flow                               | 0.71                               | %                 |             |
| Flow                                      | 0.65                               | %                 |             |
| Water Content                             | 0.15                               | %                 | ISO 960     |
| Mechanical                                | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                           | 9850                               | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                    | 155                                | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                    | 2.5                                | %                 | ISO 527-2   |
| Flexural Modulus                          | 7860                               | MPa               | ISO 178     |
| Flexural Stress                           | 205                                | MPa               | ISO 178     |
| Impact                                    | Nominal Value                      | Unit              | Test Method |
| Charpy Notched Impact Strength            |                                    |                   | ISO 179     |
| -20°C                                     | 9.0                                | kJ/m <sup>2</sup> |             |
| 23°C                                      | 12                                 | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength          |                                    |                   | ISO 179     |
| -20°C                                     | 59                                 | kJ/m <sup>2</sup> |             |

| 23°C                                               | 68            | kJ/m <sup>2</sup> |                |
|----------------------------------------------------|---------------|-------------------|----------------|
| Thermal                                            | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 210           | °C                | ISO 75-2/B     |
| Vicat Softening Temperature                        | 205           | °C                | ISO 306/B      |
| Melting Temperature (DSC)                          | 220           | °C                | ISO 3146       |
| Electrical                                         | Nominal Value | Unit              | Test Method    |
| Surface Resistivity                                | 1.0E+15       | ohms              | IEC 60093      |
| Volume Resistivity                                 | 1.0E+14       | ohms·cm           | IEC 60093      |
| Electric Strength                                  | 28            | kV/mm             | IEC 60243-1    |
| Comparative Tracking Index                         | 600           | V                 | IEC 60112      |
| Flammability                                       | Nominal Value | Unit              | Test Method    |
| Flame Rating                                       | V-0           |                   | UL 94          |
| Glow Wire Ignition Temperature                     | 960           | °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                                   | 50.0 to 70.0  | °C                |                |
| Injection Pressure                                 | 70.0 to 100   | MPa               |                |

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