

## Plastcom SLOVAMID 6 GF 15 FRG 2 LW PA6, 15% glass fibre, flame retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

### Material Notes:

Features PA 6 for injection moulding, chemically reinforced with 15% glass fibre, with nonhalogen flame retardant. Main features: flammability in accordance with UL 94 V2 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. Packaging, transport, stocking The product is packed in hermetically closed thick-walled 25 kg PE bags, on a 1.000 kg palette coated in a stretch foil, in big bags with a thick PE foil fixed on a 1.000 kg palette, in paper octabins with a thick PE foil fixed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plastcom-SLOVAMID-6-GF-15-FRG-2-LW-PA6-15-glass-fibre-flame-retardant.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-GF-15-FRG-2-LW-PA6-15-glass-fibre-flame-retardant.php)

| Physical Properties               | Metric  | English   | Comments |
|-----------------------------------|---|---|----------|
| Density                           | 1.29 g/cc   | 0.0466 lb/in <sup>3</sup>                             |          |
| Viscosity Measurement             | 0.71 - 0.83   | 0.71 - 0.83   |          |
| Linear Mold Shrinkage             | 0.0071 cm/cm  | 0.0071 in/in  |          |
| Linear Mold Shrinkage, Transverse | 0.0083 cm/cm  | 0.0083 in/in  |          |
| Melt Flow                         | 2.0 g/10 min<br>@Load 0.325 kg,<br>Temperature 270 °C | 2.0 g/10 min<br>@Load 0.716 lb,<br>Temperature 518 °F |          |

| Mechanical Properties     | Metric  | English   | Comments |
|---------------------------|---|---|----------|
| Tensile Strength at Break | 110 MPa   | 16000 psi   |          |
| Elongation at Break       | 2.8 %   | 2.8 %   |          |
| Tensile Modulus           | 6.50 GPa  | 943 ksi   |          |
| Flexural Strength         | 185 MPa   | 26800 psi   |          |
| Flexural Modulus          | 6.35 GPa  | 921 ksi   |          |
| Charpy Impact Unnotched   | 4.30 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 20.5 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F |          |
|                           | 5.00 J/cm <sup>2</sup><br>@Temperature 23.0 °C  | 23.8 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  |          |
| Charpy Impact, Notched    | 0.300 J/cm <sup>2</sup>                         | 1.43 ft-lb/in <sup>2</sup>                          |          |

| Mechanical Properties | @Temperature -20.0 °C<br>Metric | @Temperature -4.00 °F<br>English | Comments |
|-----------------------|---------------------------------|----------------------------------|----------|
|                       | 0.700 J/cm <sup>2</sup>         | 3.33 ft-lb/in <sup>2</sup>       |          |
|                       | @Temperature 23.0 °C            | @Temperature 73.4 °F             |          |

| Thermal Properties                          | Metric | English | Comments |
|---|--------|---------|----------|
| Melting Point                               | 220 °C | 428 °F  |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F  |          |
| Vicat Softening Point                       | 195 °C | 383 °F  | B        |
| Flammability, UL94                          | V-2    | V-2     |          |
| Glow Wire Test                              | 960 °C | 1760 °F |          |

| Electrical Properties      | Metric          | English         | Comments |
|----------------------------|-----------------|-----------------|----------|
| Volume Resistivity         | 1.00e+12 ohm-cm | 1.00e+12 ohm-cm |          |
| Surface Resistance         | 1.00e+15 ohm    | 1.00e+15 ohm    |          |
| Dielectric Strength        | 25.0 kV/mm      | 635 kV/in       |          |
| Comparative Tracking Index | 500 V           | 500 V           |          |

| Processing Properties | Metric         | English           | Comments |
|-----------------------|----------------|-------------------|----------|
| Melt Temperature      | 250 - 270 °C   | 482 - 518 °F      |          |
| Mold Temperature      | 50.0 - 70.0 °C | 122 - 158 °F      |          |
| Drying Temperature    | 80.0 °C        | 176 °F            |          |
| Dry Time              | 4 hour         | 4 hour            |          |
| Moisture Content      | 0.15 %         | 0.15 %            |          |
| Injection Pressure    | 70.0 - 100 MPa | 10200 - 14500 psi |          |

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