

## Plastcom PLASTAMID® 6 GF 30 005 PA6 reinforced with glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

### Material Notes:

PA 6 for injection molding, reinforced with 30% glass fiber, used in the automotive, electrical, building, engineering and hobby industry - holders of electric hand tools, hobby tools, gears, covers of electric tools, automobile mirror housings, cooling screws of blowers, electromotors, bearing parts in the automotive industry. Delivered in black color. Cost effective solution in comparison with Slovamid line. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plastcom-PLASTAMID-6-GF-30-005-PA6-reinforced-with-glass-fiber.php](http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-6-GF-30-005-PA6-reinforced-with-glass-fiber.php)

| Physical Properties               | Metric   | English  | Comments          |
|-----------------------------------|--|--|-------------------|
| Density                           | 1.37 g/cc  | 0.0495 lb/in <sup>3</sup>                            | STN EN ISO 1183-1 |
| Filler Content                    | 30 %   | 30 %   |                   |
| Linear Mold Shrinkage             | 0.011 cm/cm  | 0.011 in/in  | STN EN ISO 294-4  |
| Linear Mold Shrinkage, Transverse | 0.013 cm/cm  | 0.013 in/in  | STN EN ISO 294-4  |
| Melt Flow                         | 5.0 g/10 min<br>@Load 5.00 kg,<br>Temperature 270 °C | 5.0 g/10 min<br>@Load 11.0 lb,<br>Temperature 518 °F | STN EN ISO 1133   |

| Mechanical Properties     | Metric   | English   | Comments         |
|---------------------------|--|---|------------------|
| Tensile Strength at Break | 155 MPa  | 22500 psi   | STN EN ISO 527-2 |
| Elongation at Break       | 3.0 %  | 3.0 %   | STN EN ISO 527-2 |
| Tensile Modulus           | 8.65 GPa   | 1250 ksi  | STN EN ISO 527-2 |
| Flexural Strength         | 195 MPa  | 28300 psi   | STN EN ISO 178   |
| Flexural Modulus          | 6.85 GPa   | 994 ksi   | STN EN ISO 178   |
| Charpy Impact Unnotched   | 4.50 J/cm <sup>2</sup><br>@Temperature -20.0 °C  | 21.4 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | STN EN ISO 179   |
|                           | 5.50 J/cm <sup>2</sup><br>@Temperature 23.0 °C   | 26.2 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | STN EN ISO 179   |
| Charpy Impact, Notched    | 0.600 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 2.86 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | STN EN ISO 179   |
|                           | 0.800 J/cm <sup>2</sup><br>@Temperature 23.0 °C  | 3.81 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | STN EN ISO 179   |

| Mechanical Properties                       | Metric                       | English                        | Comments            |
|---|------------------------------|--------------------------------|---------------------|
| Melting Point                               | 222 °C                       | 432 °F                         | STN EN 11357-1      |
| Deflection Temperature at 1.8 MPa (264 psi) | 215 °C                       | 419 °F                         | STN EN ISO 75-2 (A) |
| Vicat Softening Point                       | 225 °C                       | 437 °F                         | STN EN ISO 306      |
| Flammability, UL94                          | HB                           | HB                             |                     |
| Glow Wire Test                              | 650 °C<br>@Thickness 3.00 mm | 1200 °F<br>@Thickness 0.118 in | STN EN 60695-2-12   |

| Electrical Properties      | Metric          | English         | Comments       |
|----------------------------|-----------------|-----------------|----------------|
| Volume Resistivity         | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | STN 34 6460    |
| Surface Resistance         | 1.00e+14 ohm    | 1.00e+14 ohm    | STN 34 6460    |
| Dielectric Strength        | 25.0 kV/mm      | 635 kV/in       | STN EN 60243-2 |
| Comparative Tracking Index | 350 V           | 350 V           | STN EN 60112   |

| Processing Properties | Metric                     | English                   | Comments        |
|-----------------------|----------------------------|---------------------------|-----------------|
| Melt Temperature      | 260 - 290 °C               | 500 - 554 °F              |                 |
| Mold Temperature      | 60.0 - 90.0 °C             | 140 - 194 °F              |                 |
| Drying Temperature    | 80.0 °C<br>@Time 14400 sec | 176 °F<br>@Time 4.00 hour |                 |
| Moisture Content      | 0.15 %                     | 0.15 %                    | STN EN ISO 3344 |
| Injection Pressure    | 80.0 - 130 MPa             | 11600 - 18900 psi         |                 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Black |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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