

## Plastcom SLOVALEN PH 49 GF 30 LW PP, 30% glass fibre, coupling agents, laser writer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

### Material Notes:

Features Modified homopolymer PP for injection moulding, chemically reinforced with 30% glass fibre, contains the modifier of mechanical properties and contains modifier for laser labeling of finished parts. /LASER Nd:YAG - 1064 nm/. Increased strength in comparison with unfilled PP. Applied in all industry branches. Increased strength, toughness, modulus in tension due to the modification. Delivered in black mode. 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-SLOVALEN-PH-49-GF-30-LW-PP-30-glass-fibre-coupling-agents-laser-writer.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVALEN-PH-49-GF-30-LW-PP-30-glass-fibre-coupling-agents-laser-writer.php)

| Physical Properties               | Metric  | English   | Comments |
|-----------------------------------|---|---|----------|
| Density                           | 1.05 g/cc   | 0.0379 lb/in <sup>3</sup>                             |          |
| Linear Mold Shrinkage             | 0.0048 cm/cm  | 0.0048 in/in  |          |
| Linear Mold Shrinkage, Transverse | 0.0051 cm/cm  | 0.0051 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 | 95.0 MPa  | 13800 psi   |          |
| Elongation at Break       | 2.0 %   | 2.0 %   |          |
| Tensile Modulus           | 6.85 GPa  | 994 ksi   |          |
| Flexural Strength         | 135 MPa   | 19600 psi   |          |
| Flexural Modulus          | 5.50 GPa  | 798 ksi   |          |
| Charpy Impact Unnotched   | 5.20 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 24.7 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F |          |
|                           | 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  |          |
|                           | 1.10 J/cm <sup>2</sup>                          | 5.23 ft-lb/in <sup>2</sup>                          |          |

| Charpy Impact, Notched<br>Mechanical Properties | Metric<br>@ Temperature -20.0 °C | English<br>@ Temperature -4.00 °F | Comments |
|---|----------------------------------|-----------------------------------|----------|
|   | 1.30 J/cm <sup>2</sup>           | 6.19 ft-lb/in <sup>2</sup>        |          |
|   | @ Temperature 23.0 °C            | @ Temperature 73.4 °F             |          |

| Thermal Properties                             | Metric | English | Comments |
|--|--------|---------|----------|
| Melting Point                                  | 160 °C | 320 °F  |          |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 160 °C | 320 °F  |          |
| Vicat Softening Point                          | 155 °C | 311 °F  | B        |
| Flammability, UL94                             | HB     | HB      |          |
| Glow Wire Test                                 | 650 °C | 1200 °F |          |

| Processing Properties | Metric         | English           | Comments |
|-----------------------|----------------|-------------------|----------|
| Melt Temperature      | 200 - 250 °C   | 392 - 482 °F      |          |
| Mold Temperature      | 40.0 - 80.0 °C | 104 - 176 °F      |          |
| Drying Temperature    | 80.0 °C        | 176 °F            |          |
| Dry Time              | 2 hour         | 2 hour            |          |
| Moisture Content      | <= 0.20 %      | <= 0.20 %         |          |
| Injection Pressure    | 70.0 - 120 MPa | 10200 - 17400 psi |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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