

## Techmer ES HiFill® PA6/6 G/CF30 L BK 30% GlassCarbon Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Carbon Fiber Filled , Nylon 66, Heat Stabilized

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: GlassCarbon Fiber Reinforcement, 30% Filler by Weight Additive: Heat Stabilizer and Lubricant Features: Heat Stabilized and Lubricated Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-GCF30-L-BK-30-GlassCarbon-Filler.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GCF30-L-BK-30-GlassCarbon-Filler.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.30 g/cc                          | 0.0470 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 1.8 %<br>@Time 86400 sec           | 1.8 %<br>@Time 24.0 hour            | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm<br>@Thickness 3.17 mm | 0.0030 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 115                              | 115                                  | ASTM D785 |
| Tensile Strength, Yield | 165 MPa                          | 24000 psi                            | ASTM D638 |
| Elongation at Break     | 3.5 %                            | 3.5 %                                | ASTM D638 |
| Flexural Strength       | 214 MPa                          | 31000 psi                            | ASTM D790 |
| Flexural Modulus        | 6.89 GPa                         | 1000 ksi                             | ASTM D790 |
| Izod Impact, Notched    | 0.854 J/cm<br>@Thickness 3.17 mm | 1.60 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 19.8 Åµm/m-Å°C | 11.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 255 Å°C        | 491 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 250 Å°C        | 482 Å°F          | Unannealed; ASTM D648 |

| Electrical Properties | Metric                 | English                | Comments  |
|-----------------------|------------------------|------------------------|-----------|
| Volume Resistivity    | 10000 - 1.00e+7 ohm-cm | 10000 - 1.00e+7 ohm-cm | ASTM D257 |

| Surface Resistance<br>Electrical Properties | 10000 - 1.00e+7 ohm<br>Metric | 10000 - 1.00e+7 ohm<br>English | ASTM D257<br>Comments |
|---|-------------------------------|--------------------------------|-----------------------|
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## Contact Songhan Plastic Technology Co.,Ltd.

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