

## Techmer ES HiFill® PA6 GF15 HS L 15% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Heat Stabilized

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight Additive: Heat Stabilizer and Lubricant Features: Heat Stabilized and Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-GF15-HS-L-15-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF15-HS-L-15-Glass-Filled.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.24 g/cc                          | 0.0448 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 1.4 %<br>@Time 86400 sec           | 1.4 %<br>@Time 24.0 hour            | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0055 cm/cm<br>@Thickness 3.17 mm | 0.0055 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 120                              | 120                                  | ASTM D785 |
| Tensile Strength, Yield | 110 MPa                          | 15900 psi                            | ASTM D638 |
| Elongation at Break     | 4.0 %                            | 4.0 %                                | ASTM D638 |
| Flexural Strength       | 152 MPa                          | 22000 psi                            | ASTM D790 |
| Flexural Modulus        | 3.10 GPa                         | 450 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 0.641 J/cm<br>@Thickness 3.17 mm | 1.20 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---------------------------------------------|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 43.2 Åµm/m-Å°C | 24.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 213 Å°C        | 415 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 196 Å°C        | 385 Å°F          | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB             | HB               |                       |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |

|                       |            |           |                                |
|-----------------------|------------|-----------|--------------------------------|
| Electrical Properties | Metric//mm | EnglishIn | CommentsShort-Time); ASTM D149 |
|-----------------------|------------|-----------|--------------------------------|

**Contact Songhan Plastic Technology Co.,Ltd.**

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