

## Techmer ES HiFill<sup>®</sup> PA6/6 GF15 L 15% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight Additive:

Lubricant Features: Lubricated Appearance: Natural Color Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-GF15-L-15-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF15-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            | 1.8 %<br>@Time 86400 sec           | 1.8 %<br>@Time 24.0 hour            | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm<br>@Thickness 3.17 mm | 0.0060 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 115                              | 115                                  | ASTM D785 |
| Tensile Strength, Yield | 117 MPa                          | 17000 psi                            | ASTM D638 |
| Elongation at Break     | 3.0 %                            | 3.0 %                                | ASTM D638 |
| Flexural Strength       | 172 MPa                          | 25000 psi                            | ASTM D790 |
| Flexural Modulus        | 4.83 GPa                         | 700 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               | 32.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 18.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 255 $\text{Å}^\circ\text{C}$                           | 491 $\text{Å}^\circ\text{F}$                             | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 221 $\text{Å}^\circ\text{C}$                           | 430 $\text{Å}^\circ\text{F}$                             | Unannealed; ASTM D648 |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 19.3 kV/mm      | 490 kV/in       | Method A (Short-Time); ASTM D149 |

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

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