

## Techmer ES HiFill<sup>®</sup> PA6/6 GF33 NAT001 33% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight UL File Number:

E157318 Appearance: Black and Natural Color TPCI# 9475101 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-GF33-NAT001-33-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF33-NAT001-33-Glass-Filled.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.38 g/cc                          | 0.0499 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.70 %<br>@Time 86400 sec          | 0.70 %<br>@Time 24.0 hour           | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm<br>@Thickness 3.17 mm | 0.0020 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 118                             | 118                                  | ASTM D785 |
| Tensile Strength, Yield | 186 MPa                         | 27000 psi                            | ASTM D638 |
| Elongation at Break     | 3.5 %                           | 3.5 %                                | ASTM D638 |
| Flexural Strength       | 221 MPa                         | 32000 psi                            | ASTM D790 |
| Flexural Modulus        | 7.58 GPa                        | 1100 ksi                             | ASTM D790 |
| Izod Impact, Notched    | 1.17 J/cm<br>@Thickness 3.17 mm | 2.20 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric   | English  | Comments              |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow               | 23.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 13.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 249 $\text{Å}^\circ\text{C}$                           | 480 $\text{Å}^\circ\text{F}$                             | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB   | HB   |                       |

| Electrical Properties | Metric         | English        | Comments  |
|-----------------------|----------------|----------------|-----------|
| Volume Resistivity    | 1.00e+9 ohm-cm | 1.00e+9 ohm-cm | ASTM D257 |
| Surface Resistance    | 1.00e+11 ohm   | 1.00e+11 ohm   | ASTM D257 |

| Dielectric Strength<br>Electrical Properties | 17.3 kV/mm<br>Metric | 440 kV/in<br>English | Method A (Short-Time); ASTM D149<br>Comments |
|--|----------------------|----------------------|--|
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## Contact Songhan Plastic Technology Co.,Ltd.

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