

## Techmer ES HiFill® PA6 GF50 HS UV BK 50% Glass Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled , Nylon 6, Heat Stabilized

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 50% Filler by Weight  
Additive: Lubricant, UV Stabilizer and Heat Stabilizer  
Features: Lubricated, Good UV Resistance and Heat Stabilizer  
Appearance: Black  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-GF50-HS-UV-BK-50-Glass-Filled-Dry.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF50-HS-UV-BK-50-Glass-Filled-Dry.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.57 g/cc                          | 0.0567 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.75 %<br>@Time 86400 sec          | 0.75 %<br>@Time 24.0 hour           | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0025 cm/cm<br>@Thickness 3.17 mm | 0.0025 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 121                             | 121                                  | ASTM D785 |
| Tensile Strength, Yield | 207 MPa                         | 30000 psi                            | ASTM D638 |
| Elongation at Break     | 2.5 %                           | 2.5 %                                | ASTM D638 |
| Flexural Strength       | 276 MPa                         | 40000 psi                            | ASTM D790 |
| Flexural Modulus        | 14.1 GPa                        | 2050 ksi                             | ASTM D790 |
| Izod Impact, Notched    | 1.49 J/cm<br>@Thickness 3.17 mm | 2.80 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched  | 11.2 J/cm<br>@Thickness 3.17 mm | 21.0 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---------------------------------------------|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 14.4 Åµm/m-Å°C | 8.00 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 218 Å°C        | 425 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 216 Å°C        | 420 Å°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   | 17.7 kV/mm      | 450 kV/in       | Method A (Short-Time); ASTM D149 |

## Contact Songhan Plastic Technology Co.,Ltd.

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