

**Techmer ES HiFill<sup>®</sup> PA6/6 GF35 L UV 35% Glass Filled (Conditioned)**

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled , Nylon 66, Heat Stabilized

**Material Notes:**

Availability: North America  
 Forms: Pellets  
 Filler/Reinforcement: Glass Fiber Reinforcement, 35% Filler by Weight  
 Additive: Lubricant, UV Stabilizer and Heat Stabilizer  
 Features: Lubricated, Good UV Resistance and heat Stabilized  
 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-GF35-L-UV-35-Glass-Filled-Conditioned.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF35-L-UV-35-Glass-Filled-Conditioned.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.41 g/cc                          | 0.0509 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.50 %<br>@Time 86400 sec          | 0.50 %<br>@Time 24.0 hour           | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0040 cm/cm<br>@Thickness 3.17 mm | 0.0040 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 121                             | 121                                  | ASTM D785 |
| Tensile Strength, Yield | 158 MPa                         | 22900 psi                            | ASTM D638 |
| Elongation at Break     | 5.0 %                           | 5.0 %                                | ASTM D638 |
| Flexural Strength       | 240 MPa                         | 34800 psi                            | ASTM D790 |
| Flexural Modulus        | 7.58 GPa                        | 1100 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  | 10.1 J/cm<br>@Thickness 3.17 mm | 19.0 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

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