

## Techmer ES HiFill<sup>®</sup> HDPE GF15 15% Glass Filled

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Glass fiber Filled

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight  
Information provided by TP Composites, Inc.

Order this product through the following link:

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

| Physical Properties         | Metric             | English                   | Comments  |
|-----------------------------|--------------------|---------------------------|-----------|
| Density                     | 1.05 g/cc          | 0.0379 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption            | 0.30 %             | 0.30 %                    | ASTM D570 |
|                             | @Time 86400 sec    | @Time 24.0 hour           |           |
| Linear Mold Shrinkage, Flow | 0.0070 cm/cm       | 0.0070 in/in              | ASTM D955 |
|                             | @Thickness 3.17 mm | @Thickness 0.125 in       |           |

| Mechanical Properties   | Metric             | English             | Comments  |
|-------------------------|--------------------|---------------------|-----------|
| Hardness, Rockwell R    | 80                 | 80                  | ASTM D785 |
| Tensile Strength, Yield | 34.5 MPa           | 5000 psi            | ASTM D638 |
| Elongation at Break     | 3.0 %              | 3.0 %               | ASTM D638 |
| Flexural Strength       | 55.2 MPa           | 8000 psi            | ASTM D790 |
| Flexural Modulus        | 4.07 GPa           | 590 ksi             | ASTM D790 |
| Izod Impact, Notched    | 0.801 J/cm         | 1.50 ft-lb/in       | ASTM D256 |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |           |

| Thermal Properties                          | Metric   | English  | Comments              |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow               | 54.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 129 $\text{Å}^\circ\text{C}$                           | 265 $\text{Å}^\circ\text{F}$                             | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 121 $\text{Å}^\circ\text{C}$                           | 250 $\text{Å}^\circ\text{F}$                             | Unannealed; ASTM D648 |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 11.8 kV/mm      | 300 kV/in       | Method A (Short-Time); ASTM D149 |

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

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