

## Techmer ES HiFill® PSU GF10 10% Glass Filled

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, 10% Glass Fiber Reinforced

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 10% Filler by Weight Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PSU-GF10-10-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PSU-GF10-10-Glass-Filled.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.31 g/cc                          | 0.0473 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.21 %<br>@Time 86400 sec          | 0.21 %<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    | 123                              | 123                                  | ASTM D785 |
| Tensile Strength, Yield | 86.2 MPa                         | 12500 psi                            | ASTM D638 |
| Elongation at Break     | 7.0 %                            | 7.0 %                                | ASTM D638 |
| Flexural Yield Strength | 139 MPa                          | 20200 psi                            | ASTM D790 |
| Flexural Modulus        | 4.14 GPa                         | 600 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 0.587 J/cm<br>@Thickness 3.17 mm | 1.10 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---------------------------------------------|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 30.6 Åµm/m-Å°C | 17.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 183 Å°C        | 362 Å°F          | Unannealed; ASTM D648 |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 16.9 kV/mm      | 430 kV/in       | Method A (Short-Time); ASTM D149 |

## Contact Songhan Plastic Technology Co.,Ltd.

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