

## Techmer ES HiFill<sup>®</sup> PP GF/M50 CC BK 50% Glass/Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Glass/Mineral Reinforced

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass/Mineral, 50% Filler by Weight Features: Chemically

Coupled Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PP-GFM50-CC-BK-50-GlassMineral-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PP-GFM50-CC-BK-50-GlassMineral-Filled.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.32 g/cc                          | 0.0477 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.060 %<br>@Time 86400 sec         | 0.060 %<br>@Time 24.0 hour          | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm<br>@Thickness 3.17 mm | 0.0030 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 95                               | 95                                   | ASTM D785 |
| Tensile Strength, Yield | 72.4 MPa                         | 10500 psi                            | ASTM D638 |
| Elongation at Break     | 3.0 %                            | 3.0 %                                | ASTM D638 |
| Flexural Yield Strength | 96.5 MPa                         | 14000 psi                            | ASTM D790 |
| Flexural Modulus        | 5.52 GPa                         | 800 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 0.694 J/cm<br>@Thickness 3.17 mm | 1.30 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched  | 7.47 J/cm<br>@Thickness 3.17 mm  | 14.0 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 21.6 Åµm/m-Å°C | 12.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 152 Å°C        | 305 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 143 Å°C        | 290 Å°F          | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB             | HB               |                       |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 2.00e+16 ohm-cm | 2.00e+16 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 20.1 kV/mm      | 510 kV/in       | Method A (Short-Time); ASTM D149 |

## Contact Songhan Plastic Technology Co.,Ltd.

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