

## Techmer ES HiFill<sup>®</sup> TPX-HTN-03002 A 30% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , High Temperature Nylon

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Mineral Filler, 30% Filler by Weight Features: Platable and High Temperature Strength UL File Number: E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-TPX-HTN-03002-A-30-Mineral-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPX-HTN-03002-A-30-Mineral-Filled.php)

| Physical Properties         | Metric                            | English                            | Comments  |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density                     | 1.45 g/cc                         | 0.0524 lb/in <sup>3</sup>          | ASTM D792 |
| Water Absorption            | 0.14 %<br>@Time 86400 sec         | 0.14 %<br>@Time 24.0 hour          | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.012 cm/cm<br>@Thickness 3.17 mm | 0.012 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                           | English                               | Comments  |
|-------------------------|----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R    | 126                              | 126                                   | ASTM D785 |
| Tensile Strength, Yield | 96.5 MPa                         | 14000 psi                             | ASTM D638 |
| Elongation at Yield     | 1.5 %                            | 1.5 %                                 | ASTM D638 |
| Flexural Yield Strength | 200 MPa                          | 29000 psi                             | ASTM D790 |
| Flexural Modulus        | 6.21 GPa                         | 900 ksi                               | ASTM D790 |
| Izod Impact, Notched    | 0.427 J/cm<br>@Thickness 3.17 mm | 0.800 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric   | English  | Comments              |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow               | 43.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 24.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 161 $\text{Å}^\circ\text{C}$                           | 322 $\text{Å}^\circ\text{F}$                             | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB   | HB   |                       |

| 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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