

**Techmer ES HiFill<sup>®</sup> PA6 0445 A**

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

Availability: North America Forms: Pellets Features: High Specific Gravity Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-0445-A.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-0445-A.php)

| Physical Properties         | Metric             | English                  | Comments  |
|-----------------------------|--------------------|--------------------------|-----------|
| Density                     | 4.45 g/cc          | 0.161 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption            | 0.10 %             | 0.10 %                   | ASTM D570 |
|                             | @Time 86400 sec    | @Time 24.0 hour          |           |
| Linear Mold Shrinkage, Flow | 0.0010 cm/cm       | 0.0010 in/in             | ASTM D955 |
|                             | @Thickness 3.17 mm | @Thickness 0.125 in      |           |

| Mechanical Properties   | Metric             | English             | Comments  |
|-------------------------|--------------------|---------------------|-----------|
| Tensile Strength, Yield | 34.5 MPa           | 5000 psi            | ASTM D638 |
| Elongation at Break     | 1.0 %              | 1.0 %               | ASTM D638 |
| Flexural Strength       | 48.3 MPa           | 7000 psi            | ASTM D790 |
| Flexural Modulus        | 8.96 GPa           | 1300 ksi            | ASTM D790 |
| Izod Impact, Notched    | 0.374 J/cm         | 0.700 ft-lb/in      | ASTM D256 |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |           |

| Thermal Properties                          | Metric | English | Comments              |
|---|--------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 174 °C | 345 °F  | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 167 °C | 333 °F  | Unannealed; ASTM D648 |

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