

**Techmer ES HiFill<sup>®</sup> TPU 0266 A**

Category : Polymer , Thermoplastic , Polyurethane, TP

**Material Notes:**

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-TPU-0266-A.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPU-0266-A.php)

| Physical Properties         | Metric             | English                   | Comments  |
|-----------------------------|--------------------|---------------------------|-----------|
| Density                     | 2.66 g/cc          | 0.0961 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption            | 0.025 %            | 0.025 %                   | ASTM D570 |
|                             | @Time 86400 sec    | @Time 24.0 hour           |           |
| Linear Mold Shrinkage, Flow | 0.0040 cm/cm       | 0.0040 in/in              | ASTM D955 |
|                             | @Thickness 3.17 mm | @Thickness 0.125 in       |           |

| Mechanical Properties   | Metric             | English             | Comments  |
|-------------------------|--------------------|---------------------|-----------|
| Hardness, Rockwell R    | 57                 | 57                  | ASTM D785 |
| Tensile Strength, Yield | 31.0 MPa           | 4500 psi            | ASTM D638 |
| Elongation at Break     | 40 %               | 40 %                | ASTM D638 |
| Flexural Strength       | 33.8 MPa           | 4900 psi            | ASTM D790 |
| Flexural Modulus        | 0.207 GPa          | 30.0 ksi            | ASTM D790 |
| Izod Impact, Notched    | 2.67 J/cm          | 5.00 ft-lb/in       | ASTM D256 |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |           |

| Thermal Properties                          | Metric   | English | Comments              |
|---|----------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 79.4 Å°C | 175 Å°F | Unannealed; ASTM D648 |

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