

Techmer ES HiFill[®] PA6/6 0177 B Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Availability: North America
 Forms: Pellets
 Filler/Reinforcement: Barium Sulfate
 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-PA66-0177-B-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density | 1.78 g/cc | 0.0643 lb/in ³ | ASTM D792 |
| Water Absorption | 0.10 % @Time 86400 sec | 0.10 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.017 cm/cm @Thickness 3.17 mm | 0.017 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R | 110 | 110 | ASTM D785 |
| Tensile Strength, Yield | 75.2 MPa | 10900 psi | ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | ASTM D638 |
| Flexural Strength | 112 MPa | 16300 psi | ASTM D790 |
| Flexural Modulus | 6.89 GPa | 1000 ksi | ASTM D790 |
| Izod Impact, Notched | 0.374 J/cm @Thickness 3.17 mm | 0.700 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 154 Â°C | 310 Â°F | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 82.2 Â°C | 180 Â°F | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------------------|----------------------------|-----------|
| Volume Resistivity | 1.00e+13 - 1.00e+14 ohm-cm | 1.00e+13 - 1.00e+14 ohm-cm | ASTM D257 |

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