

Techmer ES HiFill FR[®] PA6/6 GF13 FR BK 13% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber, 13% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Flame Retardant, Lubricated and Heat Stabilized
Appearance: Black
TPCI# 8152101
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-GF13-FR-BK-13-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.44 g/cc | 0.0520 lb/in ³ | ASTM D792 |
| Water Absorption | 0.75 % | 0.75 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|-----------|
| Hardness, Rockwell R | 111 | 111 | ASTM D785 |
| Tensile Strength, Yield | 95.1 MPa | 13800 psi | ASTM D638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM D638 |
| Flexural Strength | 152 MPa | 22000 psi | ASTM D790 |
| Flexural Modulus | 4.96 GPa | 720 ksi | ASTM D790 |
| Izod Impact, Notched | 0.641 J/cm | 1.20 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 57.6 Åµm/m-Å°C | 32.0 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 224 Å°C | 435 Å°F | Unannealed; ASTM D648 |
| Flammability, UL94 | V-0 | V-0 | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------|----------------|-----------|
| Volume Resistivity | 1.00e+9 ohm-cm | 1.00e+9 ohm-cm | ASTM D257 |

| Surface Resistance Electrical Properties | 1.00e+11 ohm Metric | 1.00e+11 ohm English | ASTM D257 Comments |
|---|------------------------|-------------------------|----------------------------------|
| Dielectric Strength | 18.9 kV/mm | 480 kV/in | Method A (Short-Time); ASTM D149 |

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