

Techmer ES HiFill FR[®] PA6/6 GF10 FR HS BK 10% 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, 10% Filler by Weight Additive: Heat Stabilizer Features: Flame Retardant and Heat Stabilized Appearance: Black TPCI# 9550101 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-GF10-FR-HS-BK-10-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.41 g/cc | 0.0509 lb/in ³ | ASTM D792 |
| Water Absorption | 0.80 % @Time 86400 sec | 0.80 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm @Thickness 3.17 mm | 0.0060 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 116 | 116 | ASTM D785 |
| Tensile Strength, Yield | 89.6 MPa | 13000 psi | ASTM D638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM D638 |
| Flexural Strength | 138 MPa | 20000 psi | ASTM D790 |
| Flexural Modulus | 4.83 GPa | 700 ksi | ASTM D790 |
| Izod Impact, Notched | 0.694 J/cm @Thickness 3.17 mm | 1.30 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 61.2 Åµm/m-Å°C | 34.0 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 216 Å°C | 420 Å°F | Unannealed; ASTM D648 |
| Flammability, UL94 | V-0 | V-0 | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | ASTM D257 |

| Dielectric Strength Electrical Properties | 18.9 kV/mm Metric | 480 kV/in English | Method A (Short-Time); ASTM D149 Comments |
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