

Techmer ES HiFill[®] PA6/6 GF33 LE 33% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight
Features: Extraction Resistant
Processing Method: Injection Molding
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF33-LE-33-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.38 g/cc | 0.0499 lb/in ³ | ASTM D792 |
| Water Absorption | 0.55 % @Time 86400 sec | 0.55 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0040 cm/cm @Thickness 3.17 mm | 0.0040 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 118 | 118 | ASTM D785 |
| Tensile Strength, Yield | 190 MPa | 27500 psi | ASTM D638 |
| Elongation at Break | 3.5 % | 3.5 % | ASTM D638 |
| Flexural Strength | 221 MPa | 32000 psi | ASTM D790 |
| Flexural Modulus | 8.96 GPa | 1300 ksi | ASTM D790 |
| Izod Impact, Notched | 1.17 J/cm @Thickness 3.17 mm | 2.20 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 32.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 18.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 259 $\text{Å}^\circ\text{C}$ | 499 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------|----------------|-----------|
| Volume Resistivity | 1.00e+9 ohm-cm | 1.00e+9 ohm-cm | ASTM D257 |
| Surface Resistance | 1.00e+11 ohm | 1.00e+11 ohm | ASTM D257 |

| Dielectric Strength Electrical Properties | 19.7 kV/mm Metric | 500 kV/in English | Method A (Short-Time); ASTM D149 Comments |
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