

Techmer ES HiFill[®] PA6/10 GF30 L 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 30% Filler by Weight Additive: Lubricant

Features: Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA610-GF30-L-30-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ASTM D792 |
| Water Absorption | 0.20 % @Time 86400 sec | 0.20 % @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 |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Tensile Strength, Yield | 145 MPa | 21000 psi | ASTM D638 |
| Elongation at Yield | 3.0 % | 3.0 % | ASTM D638 |
| Flexural Yield Strength | 214 MPa | 31000 psi | ASTM D790 |
| Flexural Modulus | 7.58 GPa | 1100 ksi | ASTM D790 |
| Izod Impact, Notched | 1.23 J/cm @Thickness 3.17 mm | 2.30 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 39.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 22.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 216 $\text{Å}^\circ\text{C}$ | 420 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Strength | 17.3 kV/mm | 440 kV/in | Method A (Short-Time); ASTM D149 |

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