

Techmer ES HiFill® PA6/6 GF10 TL10 BK 10% Glass Filled

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 10% Filler by Weight
Additive: Heat Stabilizer and PTFE Lubricant(10%)
Features: Lubricated and Heat Stabilized
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF10-TL10-BK-10-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.33 g/cc | 0.0480 lb/in ³ | ASTM D792 |
| Water Absorption | 0.75 % @Time 86400 sec | 0.75 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0070 cm/cm @Thickness 3.17 mm | 0.0070 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 117 | 117 | ASTM D785 |
| Tensile Strength, Yield | 79.3 MPa | 11500 psi | ASTM D638 |
| Elongation at Break | 3.5 % | 3.5 % | ASTM D638 |
| Flexural Strength | 117 MPa | 17000 psi | ASTM D790 |
| Flexural Modulus | 3.72 GPa | 540 ksi | ASTM D790 |
| Izod Impact, Notched | 0.534 J/cm @Thickness 3.17 mm | 1.00 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 54.0 Åµm/m-Å°C | 30.0 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 232 Å°C | 450 Å°F | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity | 3.00e+14 ohm-cm | 3.00e+14 ohm-cm | ASTM D257 |
| Dielectric Strength | 19.3 kV/mm | 490 kV/in | Method A (Short-Time); ASTM D149 |

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