

Techmer ES HiFill[®] PP GB10 10% Glass Beads Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Glass Fiber Filler

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Bead, 10% Filler by Weight
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PP-GB10-10-Glass-Beads-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density | 0.970 g/cc | 0.0350 lb/in ³ | ASTM D792 |
| Water Absorption | 0.010 % @Time 86400 sec | 0.010 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.023 cm/cm @Thickness 3.17 mm | 0.023 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R | 92 | 92 | ASTM D785 |
| Tensile Strength, Yield | 27.6 MPa | 4000 psi | ASTM D638 |
| Elongation at Yield | 10 % | 10 % | ASTM D638 |
| Flexural Yield Strength | 34.5 MPa | 5000 psi | ASTM D790 |
| Flexural Modulus | 1.38 GPa | 200 ksi | ASTM D790 |
| Izod Impact, Notched | 0.267 J/cm @Thickness 3.17 mm | 0.500 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 68.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 38.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Melting Point | 170 $\text{Å}^\circ\text{C}$ | 338 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 110 $\text{Å}^\circ\text{C}$ | 230 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 57.2 $\text{Å}^\circ\text{C}$ | 135 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

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