

Techmer ES HiFill® HDPE GF30 A1 30% Glass Filled

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Glass fiber Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 30% Filler by Weight
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-HDPE-GF30-A1-30-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.17 g/cc | 0.0423 lb/in ³ | ASTM D792 |
| Water Absorption | 0.030 % @Time 86400 sec | 0.030 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm @Thickness 3.17 mm | 0.0030 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 76 | 76 | ASTM D785 |
| Tensile Strength, Yield | 55.8 MPa | 8100 psi | ASTM D638 |
| Elongation at Break | 5.0 % | 5.0 % | ASTM D638 |
| Flexural Strength | 68.9 MPa | 10000 psi | ASTM D790 |
| Flexural Modulus | 3.79 GPa | 550 ksi | ASTM D790 |
| Izod Impact, Notched | 1.12 J/cm @Thickness 3.17 mm | 2.10 ft-lb/in @Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched | 5.87 J/cm @Thickness 3.17 mm | 11.0 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 0.46 MPa (66 psi) | 129 Å°C | 265 Å°F | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 121 Å°C | 250 Å°F | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

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