

Techmer ES HiFill[®] PBT 0158 S

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Metal Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PBT-0158-S.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.58 g/cc | 0.0571 lb/in ³ | ASTM D792 |
| Water Absorption | 0.80 % | 0.80 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.016 cm/cm | 0.016 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|-----------|
| Hardness, Rockwell R | 112 | 112 | ASTM D785 |
| Tensile Strength, Yield | 48.3 MPa | 7000 psi | ASTM D638 |
| Elongation at Break | 16 % | 16 % | ASTM D638 |
| Flexural Strength | 68.9 MPa | 10000 psi | ASTM D790 |
| Flexural Modulus | 3.03 GPa | 440 ksi | ASTM D790 |
| Izod Impact, Notched | 0.427 J/cm | 0.800 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|---|--|-----------------------|
| CTE, linear, Parallel to Flow | 126 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 70.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 54.4 $\text{Å}^\circ\text{C}$ | 130 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity | 3.00e+15 ohm-cm | 3.00e+15 ohm-cm | ASTM D257 |
| Dielectric Strength | 16.1 kV/mm | 410 kV/in | Method A (Short-Time); ASTM D149 |

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