

Techmer ES Luriblend[®] PSU GF20 TL5 20% Glass Filled

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, 20% Glass Fiber Reinforced

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber, 20% Filler by Weight
Additive: PTFE Lubricant
Features: Lubricated
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PSU-GF20-TL5-20-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.42 g/cc | 0.0513 lb/in ³ | ASTM D792 |
| Water Absorption | 0.21 % @Time 86400 sec | 0.21 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm @Thickness 3.17 mm | 0.0020 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 123 | 123 | ASTM D785 |
| Tensile Strength, Yield | 97.9 MPa | 14200 psi | ASTM D638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM D638 |
| Flexural Yield Strength | 138 MPa | 20000 psi | ASTM D790 |
| Flexural Modulus | 5.86 GPa | 850 ksi | ASTM D790 |
| Izod Impact, Notched | 0.641 J/cm @Thickness 3.17 mm | 1.20 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------------|-----------------|-----------------------|
| CTE, linear, Parallel to Flow | 30.6 Åm/m-Å°C | 17.0 Åin/in-Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 182 Å°C | 360 Å°F | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Strength | 16.9 kV/mm | 430 kV/in | Method A (Short-Time); ASTM D149 |

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