

## Techmer ES Luriblend<sup>®</sup> PES GF30 TL15 30% Glass Filled

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 30%Glass Fiber Filled

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber, 30% Filler by Weight  
Additive: PTFE Lubricant(15%)  
Features: Lubricated  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Luriblend-PES-GF30-TL15-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PES-GF30-TL15-30-Glass-Filled.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.70 g/cc                          | 0.0614 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.30 %<br>@Time 86400 sec          | 0.30 %<br>@Time 24.0 hour           | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0015 cm/cm<br>@Thickness 3.17 mm | 0.0015 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties            | Metric                           | English                              | Comments   |
|----------------------------------|----------------------------------|--------------------------------------|------------|
| Tensile Strength, Yield          | 125 MPa                          | 18200 psi                            | ASTM D638  |
| Elongation at Yield              | 4.0 %                            | 4.0 %                                | ASTM D638  |
| Flexural Yield Strength          | 172 MPa                          | 25000 psi                            | ASTM D790  |
| Flexural Modulus                 | 7.58 GPa                         | 1100 ksi                             | ASTM D790  |
| Izod Impact, Notched             | 0.854 J/cm<br>@Thickness 3.17 mm | 1.60 ft-lb/in<br>@Thickness 0.125 in | ASTM D256  |
| Izod Impact, Unnotched           | 3.74 J/cm<br>@Thickness 3.17 mm  | 7.00 ft-lb/in<br>@Thickness 0.125 in | ASTM D256  |
| Coefficient of Friction, Dynamic | 0.26                             | 0.26                                 | ASTM D1894 |
| Coefficient of Friction, Static  | 0.20                             | 0.20                                 | ASTM D1894 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 36.0 Åµm/m-Å°C | 20.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 216 Å°C        | 420 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Å°C        | 410 Å°F          | Unannealed; ASTM D648 |

| Flammability UL 94<br>Thermal Properties | V-0<br>Metric   | V-0<br>English  | Comments                         |
|--|-----------------|-----------------|----------------------------------|
| Electrical Properties                    | Metric          | English         | Comments                         |
| Volume Resistivity                       | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257                        |
| Dielectric Strength                      | 17.7 kV/mm      | 450 kV/in       | Method A (Short-Time); ASTM D149 |

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