

## Techmer ES Luriblend<sup>®</sup> PA6/6 GF30 TL5 LE 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, PTFE Filled

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber, 30% Filler by Weight  
Additive: PTFE Lubricant(15%)  
Features: Lubricated, Good Wear Resistance, Low Friction and Low Extractables  
Appearance: Natural Color  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Luriblend-PA66-GF30-TL5-LE-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-GF30-TL5-LE-30-Glass-Filled.php)

| Physical Properties         | Metric             | English                   | Comments  |
|-----------------------------|--------------------|---------------------------|-----------|
| Density                     | 1.49 g/cc          | 0.0538 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption            | 0.50 %             | 0.50 %                    | ASTM D570 |
|                             | @Time 86400 sec    | @Time 24.0 hour           |           |
| Linear Mold Shrinkage, Flow | 0.0050 cm/cm       | 0.0050 in/in              | ASTM D955 |
|                             | @Thickness 3.17 mm | @Thickness 0.125 in       |           |

| Mechanical Properties            | Metric                                       | English  | Comments   |
|----------------------------------|--|--|------------|
| Hardness, Rockwell R             | 90   | 90   | ASTM D785  |
| Tensile Strength, Yield          | 149 MPa                                      | 21600 psi  | ASTM D638  |
| Elongation at Break              | 2.0 %  | 2.0 %  | ASTM D638  |
| Flexural Strength                | 224 MPa                                      | 32500 psi  | ASTM D790  |
| Flexural Modulus                 | 8.96 GPa                                     | 1300 ksi   | ASTM D790  |
| Izod Impact, Notched             | 0.747 J/cm                                   | 1.40 ft-lb/in  | ASTM D256  |
|                                  | @Thickness 3.17 mm                           | @Thickness 0.125 in                                    |            |
| Coefficient of Friction, Dynamic | 0.28   | 0.28   | ASTM D1894 |
| Coefficient of Friction, Static  | 0.22   | 0.22   | ASTM D1894 |
| K (wear) Factor                  | 36.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M | 18.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr |            |
| Limiting Pressure Velocity       | 0.613 MPa-m/sec                              | 17500 psi-ft/min                                       | 10 fpm     |
|                                  | 0.613 MPa-m/sec                              | 17500 psi-ft/min                                       | 1000 fpm   |
|                                  | 0.701 MPa-m/sec                              | 20000 psi-ft/min                                       | 100 fpm    |

| Thermal Properties                          | Metric   | English  | Comments              |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow               | 27.0 $\mu\text{m}/\text{m}\cdot\text{Â}^\circ\text{C}$ | 15.0 $\mu\text{in}/\text{in}\cdot\text{Â}^\circ\text{F}$ | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 259 $\text{Â}^\circ\text{C}$                           | 498 $\text{Â}^\circ\text{F}$                             | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 254 $\text{Â}^\circ\text{C}$                           | 490 $\text{Â}^\circ\text{F}$                             | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB   | HB   |                       |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 19.7 kV/mm      | 500 kV/in       | Method A (Short-Time); ASTM D149 |

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