

## Techmer ES Elastoblend® PA6 GF43 IM L BKN 43% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled , Nylon 6, Impact Grade

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 43% Filler by Weight Additive: Impact

Modifier Features: Impact Modified UL File Number: E157318 Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Elastoblend-PA6-GF43-IM-L-BKN-43-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA6-GF43-IM-L-BKN-43-Glass-Filled.php)

| Physical Properties         | Metric                            | English                            | Comments  |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density                     | 1.48 g/cc                         | 0.0535 lb/in <sup>3</sup>          | ASTM D792 |
| Water Absorption            | 0.50 %<br>@Time 86400 sec         | 0.50 %<br>@Time 24.0 hour          | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.035 cm/cm<br>@Thickness 3.17 mm | 0.035 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                                                     | English                                                        | Comments  |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------|-----------|
| Hardness, Rockwell R    | 120                                                        | 120                                                            | ASTM D785 |
| Tensile Strength, Yield | 176 MPa                                                    | 25500 psi                                                      | ASTM D638 |
| Elongation at Break     | 4.0 %                                                      | 4.0 %                                                          | ASTM D638 |
| Flexural Strength       | 234 MPa                                                    | 34000 psi                                                      | ASTM D790 |
| Flexural Modulus        | 8.27 GPa                                                   | 1200 ksi                                                       | ASTM D790 |
| Izod Impact, Notched    | 0.747 J/cm<br>@Thickness 3.17 mm,<br>Temperature -40.0 Â°C | 1.40 ft-lb/in<br>@Thickness 0.125 in,<br>Temperature -40.0 Â°F | ASTM D256 |
|                         | 1.66 J/cm<br>@Thickness 3.17 mm,<br>Temperature 22.8 Â°C   | 3.10 ft-lb/in<br>@Thickness 0.125 in,<br>Temperature 73.0 Â°F  | ASTM D256 |
| Izod Impact, Unnotched  | 13.9 J/cm<br>@Thickness 3.17 mm                            | 26.0 ft-lb/in<br>@Thickness 0.125 in                           | ASTM D256 |

| Thermal Properties                | Metric         | English          | Comments  |
|-----------------------------------|----------------|------------------|-----------|
| CTE, linear, Parallel to Flow     | 36.0 Âµm/m-Â°C | 20.0 Âµin/in-Â°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa |                |                  |           |

| (264 psi)<br>Thermal Properties | 213 Å°C<br>Metric | 415 Å°F<br>English | Unannealed; ASTM D648<br>Comments |
|---------------------------------|-------------------|--------------------|-----------------------------------|
| Flammability, UL94              | HB                | HB                 |                                   |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 2.00e+13 ohm-cm | 2.00e+13 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 15.4 kV/mm      | 390 kV/in       | Method A (Short-Time); ASTM D149 |

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