

## Techmer ES Elastoblend® PBT GF33 IM 33% Glass Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Impact Grade

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight Additive: Impact

Modifier Features: Impact Modified Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Elastoblend-PBT-GF33-IM-33-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PBT-GF33-IM-33-Glass-Filled.php)

| Physical Properties         | Metric             | English                   | Comments  |
|-----------------------------|--------------------|---------------------------|-----------|
| Density                     | 1.52 g/cc          | 0.0549 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption            | 0.050 %            | 0.050 %                   | 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    | 118                | 118                 | ASTM D785 |
| Tensile Strength, Yield | 117 MPa            | 17000 psi           | ASTM D638 |
| Elongation at Break     | 2.5 %              | 2.5 %               | ASTM D638 |
| Flexural Yield Strength | 172 MPa            | 25000 psi           | ASTM D790 |
| Flexural Modulus        | 7.58 GPa           | 1100 ksi            | ASTM D790 |
| Izod Impact, Notched    | 1.28 J/cm          | 2.40 ft-lb/in       | ASTM D256 |
|                         | @Thickness 6.35 mm | @Thickness 0.250 in |           |

| Thermal Properties                          | Metric             | English              | Comments              |
|---|--------------------|----------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 25.2 Åµm/m-Å°C     | 14.0 Åµin/in-Å°F     | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 224 Å°C            | 435 Å°F              | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 206 Å°C            | 402 Å°F              | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB                 | HB                   |                       |
|   | @Thickness 1.50 mm | @Thickness 0.0591 in |                       |

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**