

## Techmer ES Elastoblend® PBT E IM SL3

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

### Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier and Silicone Lubricant Features: Impact Modified and Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Elastoblend-PBT-E-IM-SL3.php](http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PBT-E-IM-SL3.php)

| Physical Properties         | Metric                            | English                            | Comments  |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density                     | 1.22 g/cc                         | 0.0441 lb/in <sup>3</sup>          | ASTM D792 |
| Water Absorption            | 0.10 %<br>@Time 86400 sec         | 0.10 %<br>@Time 24.0 hour          | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.020 cm/cm<br>@Thickness 3.17 mm | 0.020 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 117                             | 117                                  | ASTM D785 |
| Tensile Strength, Yield | 37.2 MPa                        | 5400 psi                             | ASTM D638 |
| Elongation at Break     | 25 %                            | 25 %                                 | ASTM D638 |
| Flexural Yield Strength | 55.2 MPa                        | 8000 psi                             | ASTM D790 |
| Flexural Modulus        | 1.55 GPa                        | 225 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 1.60 J/cm<br>@Thickness 3.17 mm | 3.00 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments              |
|---------------------------------------------|--------------------------|----------------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 99.0 Åµm/m-Å°C           | 55.0 Åµin/in-Å°F           | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 102 Å°C                  | 215 Å°F                    | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 51.7 Å°C                 | 125 Å°F                    | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm | HB<br>@Thickness 0.0591 in |                       |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Volume Resistivity<br>Electrical Properties | 1.00e+15 ohm-cm<br>Metric | 1.00e+15 ohm-cm<br>English | ASTM D257<br>Comments            |
|---------------------------------------------|---------------------------|----------------------------|----------------------------------|
| Dielectric Strength                         | 19.7 kV/mm                | 500 kV/in                  | Method A (Short-Time); ASTM D149 |

## Contact Songhan Plastic Technology Co.,Ltd.

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