

## Techmer ES Elastoblend® PA6 IM L W

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

### Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier and Lubricant Features: Impact Modified and Lubricated 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-IM-L-W.php](http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA6-IM-L-W.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.06 g/cc                          | 0.0383 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 1.5 %<br>@Time 86400 sec           | 1.5 %<br>@Time 24.0 hour            | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0013 cm/cm<br>@Thickness 3.17 mm | 0.0013 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 105                             | 105                                  | ASTM D785 |
| Tensile Strength, Yield | 50.3 MPa                        | 7300 psi                             | ASTM D638 |
| Elongation at Break     | 200 %                           | 200 %                                | ASTM D638 |
| Flexural Strength       | 65.5 MPa                        | 9500 psi                             | ASTM D790 |
| Flexural Modulus        | 1.72 GPa                        | 250 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 9.61 J/cm<br>@Thickness 3.17 mm | 18.0 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched  | NB<br>@Thickness 3.17 mm        | NB<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) | 166 Å°C        | 330 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 51.7 Å°C       | 125 Å°F          | Unannealed; ASTM D648 |

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

| Volume Resistivity<br>Electrical Properties | 2.00e+13 ohm-cm<br>Metric | 2.00e+13 ohm-cm<br>English | ASTM D257<br>Comments            |
|---------------------------------------------|---------------------------|----------------------------|----------------------------------|
| Dielectric Strength                         | 16.5 kV/mm                | 420 kV/in                  | Method A (Short-Time); ASTM D149 |

## Contact Songhan Plastic Technology Co.,Ltd.

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