

Techmer ES Elastoblend® PA6 IM L

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 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA6-IM-L.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.06 g/cc | 0.0383 lb/in ³ | ASTM D792 |
| Water Absorption | 1.5 % @Time 86400 sec | 1.5 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0013 cm/cm @Thickness 3.17 mm | 0.0013 in/in @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 | 8.54 J/cm @Thickness 3.17 mm | 16.0 ft-lb/in @Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched | NB @Thickness 3.17 mm | NB @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 |
| 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 | 16.5 kV/mm | 420 kV/in | Method A (Short-Time); ASTM D149 |

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