

Techmer ES Elastoblend® PA6/6 GF13 IM-1 HS L 13% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled , Nylon 66, Glass Reinforced, Impact Grade , Nylon 66, Heat Stabilized

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 13% Filler by Weight Additive: Heat Stabilizer, Lubricant and Impact Modifier Features: Heat Stabilized, Lubricant and Impact Modified Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA66-GF13-IM-1-HS-L-13-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.17 g/cc | 0.0423 lb/in ³ | ASTM D792 |
| Water Absorption | 0.80 % | 0.80 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|-----------|
| Hardness, Rockwell R | 111 | 111 | ASTM D785 |
| Tensile Strength, Yield | 91.0 MPa | 13200 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Strength | 110 MPa | 16000 psi | ASTM D790 |
| Flexural Modulus | 3.62 GPa | 525 ksi | ASTM D790 |
| Izod Impact, Notched | 1.07 J/cm | 2.00 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature -40.0 Å°C | @Thickness 0.125 in, Temperature -40.0 Å°F | |
| Izod Impact, Unnotched | 1.60 J/cm | 3.00 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature 22.8 Å°C | @Thickness 0.125 in, Temperature 73.0 Å°F | |
| Izod Impact, Unnotched | NB | NB | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 54.0 Åµm/m-Å°C | 30.0 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 252 Å°C | 485 Å°F | Unannealed; ASTM D648 |

| Thermal Properties | Metric | English | Comments |
|--|----------|----------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 220 A °C | 420 A °F | Unannealed; ASTM D548 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Dielectric Strength | 19.3 kV/mm | 490 kV/in | Method A (Short-Time); ASTM D149 |

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