

Techmer ES Elastoblend® PA6 GF40 IM HS UV RD 40% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled , Nylon 6, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 40% Filler by Weight Additive: Impact

Modifier Features: Impact Modified UL File Number: E157318 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-GF40-IM-HS-UV-RD-40-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.46 g/cc | 0.0527 lb/in ³ | ASTM D792 |
| Water Absorption | 0.50 % | 0.50 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.035 cm/cm | 0.035 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-----------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength, Yield | 176 MPa | 25500 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Strength | 234 MPa | 34000 psi | ASTM D790 |
| Flexural Modulus | 8.27 GPa | 1200 ksi | ASTM D790 |
| Izod Impact, Notched | 1.01 J/cm | 1.90 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature -40.0 °C | @Thickness 0.125 in, Temperature -40.0 °F | |
| Izod Impact, Unnotched | 2.24 J/cm | 4.20 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature 22.8 °C | @Thickness 0.125 in, Temperature 73.0 °F | |
| Izod Impact, Unnotched | 13.9 J/cm | 26.0 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|-----------------------------------|--------------|----------------|-----------|
| CTE, linear, Parallel to Flow | 36.0 µm/m-°C | 20.0 µin/in-°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa | | | |

| (264 psi) Thermal Properties | 213 Å°C Metric | 415 Å°F English | Unannealed; ASTM D648 Comments |
|---------------------------------|-------------------|--------------------|-----------------------------------|
| 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 | 15.4 kV/mm | 390 kV/in | Method A (Short-Time); ASTM D149 |

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