

Techmer ES Elastoblend® PA6/6 GF13 IM HS BK 13% Glass Filled

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 13% Filler by Weight
Additive: Heat Stabilizer, Impact Modifier and Lubricant
Features: Heat Stabilized, Impact Modified and Lubricated
UL File Number: E157318
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

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

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | ASTM D792 |
| Water Absorption | 0.90 % | 0.90 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.016 cm/cm | 0.016 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 | 82.7 MPa | 12000 psi | ASTM D638 |
| Elongation at Break | 6.0 % | 6.0 % | ASTM D638 |
| Flexural Strength | 110 MPa | 16000 psi | ASTM D790 |
| Flexural Modulus | 36.2 GPa | 5250 ksi | ASTM D790 |
| Izod Impact, Notched | 1.07 J/cm | 2.00 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature -40.0 °C | @Thickness 0.125 in, Temperature -40.0 °F | |
| Izod Impact, Notched | 1.82 J/cm | 3.40 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature 22.8 °C | @Thickness 0.125 in, Temperature 73.0 °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 | 79.2 µm/m-°C | 44.0 µin/in-°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa | | | |

| (56 psi) Thermal Properties | 252 Â°C Metric | 485 Â°F English | Unannealed; ASTM D648 Comments |
|--|-------------------|--------------------|-----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 220 Â°C | 428 Â°F | Unannealed; ASTM D648 |

| 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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