

Techmer ES Elastoblend® PA6 GF15 IM1 15% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6, Heat Stabilized , Nylon 6, Impact Grade

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight
Additive: Heat Stabilizer, Impact Modifier and Lubricant
Features: Heat Stabilized, 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-GF15-IM1-15-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Flexural Strength	172 MPa	25000 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Izod Impact, Notched	2.08 J/cm @Thickness 3.17 mm	3.90 ft-lb/in @Thickness 0.125 in	ASTM D256
	0.908 J/cm @Thickness 3.17 mm, Temperature -20.0 °C	1.70 ft-lb/in @Thickness 0.125 in, Temperature -4.00 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	380 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	15.7 kV/mm	400 kV/in	Method A (Short-Time); ASTM D149

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