

Techmer ES HiFill® PA6/6 GF55 HS L OR016 57% Glass Filled

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 57% Filler by Weight
Additive: Lubricant and Heat Stabilizer
Features: Lubricated and Heat Stabilized
UL File Number: E157318
Appearance: Orange
TPCI# 8575101
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF55-HS-L-OR016-57-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Water Absorption	0.35 % @Time 86400 sec	0.35 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	248 MPa	36000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	365 MPa	53000 psi	ASTM D790
Flexural Modulus	19.3 GPa	2800 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
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	23.4 Âµm/m-Â°C	13.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	257 Â°C	495 Â°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00×10^{11} ohm	1.00×10^{11} ohm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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