

Techmer ES HiFill FR[®] PA6/6 FR NAT

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Unreinforced, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Features: Flame Retardant UL File Number: E157318 Appearance: Natural Color Processing

Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-FR-NAT.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.011 cm/cm @Thickness 3.17 mm	0.011 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.17 mm	2.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.8 Åµm/m-Å°C	31.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Å°C	158 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Strength	27.2 kV/mm	690 kV/in	Method A (Short-Time); ASTM D149

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