

Techmer ES HiFill FR[®] PA6/6 GF25 FR-N IM3 25% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber, 25% Filler by Weight Additive: Impact Modifier Features: Flame Retardant and Impact Modified Appearance: Red Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-GF25-FR-N-IM3-25-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.95 % @Time 86400 sec	0.95 % @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	94	94	ASTM D785
Tensile Strength, Yield	154 MPa	22400 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C	1.50 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Â°F	ASTM D256
	1.17 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C	2.20 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 Âµm/m-Â°C	20.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	252 Â°C	485 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	120 Â°C	248 Â°F	UL 746
UL RTI, Mechanical with Impact	120 Â°C	248 Â°F	UL 746

Thermal Properties without Impact	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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	20.5 kV/mm	520 kV/in	Method A (Short-Time); ASTM D149
Comparative Tracking Index	>= 550 V	>= 550 V	UL 746

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