

Techmer ES HiFill[®] PA6/6 E4 A1 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Availability: North America Forms: Pellets Features: High Viscosity Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-E4-A1-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.2 %	1.2 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	237 $\text{Å}^\circ\text{C}$	459 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 $\text{Å}^\circ\text{C}$	190 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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