

Techmer ES HiFill® PA6 E2

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

Material Notes:

Availability: North America Forms: Pellets Processing Method: Extrusion Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-E2.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	2.8 %	2.8 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Viscosity Test	75 cm ³ /g	75 cm ³ /g	90% HCOOH; ISO 307
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	90.3 MPa	13100 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 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	82.8 Åµm/m-Å°C	46.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	178 Å°C	352 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 Å°C	170 Å°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	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

Electrical Properties	Metric	English	Comments
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