

Techmer ES HiFill® PA6/6 L N MB Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Nucleated

Material Notes:

Availability: North America Forms: Pellets Additive: Lubricant and Nucleating Agent Features: Lubricated, Fast Molding Cycle and Nucleated
TPCI# 8384101 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-L-N-MB-Nylon-66.php

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

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 @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 Åµm/m-Å°C	43.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	237 Å°C	459 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 Å°C	190 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	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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