

Techmer ES Elastoblend® PA6/6 IM L N Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized , Nylon 66, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer, Lubricant and Impact Modifier Features: Heat Stabilized, Lubricant and Impact Modified UL File Number: E157318 Processing Method: Injection Molding TPCI# 9170101 Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength	48.3 MPa	7000 psi	ASTM D638
Elongation at Yield	48 %	48 %	ASTM D638
Flexural Yield Strength	59.3 MPa	8600 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	1.82 J/cm	3.40 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
Izod Impact, Unnotched	8.01 J/cm	15.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 µm/m-°C	44.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa			

<small>(56 psi)</small> Thermal Properties	<small>216 Â°C</small> Metric	<small>420 Â°F</small> English	Unannealed; ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.1 Â°C	160 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	17.3 kV/mm	440 kV/in	Method A (Short-Time); ASTM D149

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