Techmer ES ElastoblendÂ® PA6/6 IM X Nylon 66

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

Material Notes:

Availability: North AmericaForms: PelletsAdditive: Heat Stabilizer, Lubricant and Impact ModifierFeatures: Lubricant and Impact ModifiedProcessing Method: Injection MoldingInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA66-IM-X-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/inÂ³	ASTM D792
Water Absorption	1.3 % @Time 86400 sec	1.3 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.016 cm/cm @Thickness 3.17 mm	0.016 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength	51.7 MPa	7500 psi	ASTM D638
Elongation at Yield	48 %	48 %	ASTM D638
Flexural Yield Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	1.82 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C	3.40 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Â°F	ASTM D256
	8.54 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C	16.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.17 mm	NB @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 Âµm/m-Â°C	44.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 Â°C	420 Â°F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	Annealed; ASTM D648

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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