

Techmer ES Elastoblend® PA6 IM 407 L

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized , Nylon 6, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer, Impact Modifier and Lubricant Features: Heat Stabilized, Impact Modified and Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA6-IM-407-L.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Water Absorption	1.5 % @Time 86400 sec	1.5 % @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 at Break	73.8 MPa	10700 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm @Thickness 3.17 mm	2.60 ft-lb/in @Thickness 0.125 in	ASTM D256
	1.33 J/cm @Thickness 3.17 mm, Temperature -40.0 Å°C	2.50 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Å°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	82.8 Åµm/m-Å°C	46.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	154 Å°C	310 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	60.0 Å°C	140 Å°F	

<small>(264 psi)</small> Thermal Properties	Metric	English	Unannealed; ASTM D648 Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
Dielectric Strength	16.5 kV/mm	420 kV/in	Method A (Short-Time); ASTM D149

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