

Techmer ES Elastoblend® PA6 IM 409 L MB

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-409-L-MB.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	66.9 MPa	9700 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 3.17 mm	3.00 ft-lb/in @Thickness 0.125 in	ASTM D256
	1.33 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C	2.50 ft-lb/in @Thickness 0.125 in, Temperature -40.0 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	82.8 Âµm/m-Â°C	46.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	154 Â°C	310 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	60.0 Â°C	140 Â°F	

(264 psi) 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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