

Techmer ES Elastoblend® PA6 IM 7040 MB

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

Material Notes:

Availability: North America
Forms: Pellets
Additive: Heat Stabilizer, Impact Modifier, Nucleating Agent and Lubricant
Features: Heat Stabilized, Impact Modified, Nucleated 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-7040-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	0.0013 cm/cm @Thickness 3.17 mm	0.0013 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	9.65 MPa	1400 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	3.20 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	6.00 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	4.54 J/cm @Thickness 3.17 mm, Temperature -20.0 °C	8.50 ft-lb/in @Thickness 0.125 in, Temperature -4.00 °F	ASTM D256
	6.41 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	12.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 µm/m-°C	53.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	171 °C	340 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	61.1 A°C	142 A°F	Unannealed; ASTM D548
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

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