

Techmer ES Elastoblend® PA6/66 IM 6040 MB

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA666-IM-6040-MB.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Water Absorption	1.5 % @Time 86400 sec	1.5 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.013 cm/cm @Thickness 3.17 mm	0.013 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	55.8 MPa	8100 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	83.4 MPa	12100 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C	2.00 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Â°F	ASTM D256
	2.14 J/cm @Thickness 3.17 mm, Temperature -20.0 Â°C	4.00 ft-lb/in @Thickness 0.125 in, Temperature -4.00 Â°F	ASTM D256
	3.74 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C	7.00 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 Âµm/m-Â°C	53.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	174 Â°C	345 Â°F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.6 A°C	150 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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