

Techmer ES Plastiblend® PA6/6,6 IM 6040 BK MB Nylon 6/66

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

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer, Impact Modifier and Lubricant Features: Heat Stabilized, Copolymer, Impact Modified and Lubricated Appearance: Black Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PA666-IM-6040-BK-MB-Nylon-666.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	119	119	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm @Thickness 3.17 mm	7.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 Åµm/m-Å°C	53.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	174 Å°C	345 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.6 Å°C	150 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Electrical Properties	Metric//mm	EnglishIn	CommentsShort-Time); ASTM D149
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