

Techmer ES Plastiblend[®] PA6/6,6 IM HS L 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
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-HS-L-Nylon-666.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Water Absorption	1.6 % @Time 86400 sec	1.6 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 3.17 mm	0.012 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 Yield	150 %	150 %	ASTM D638
Flexural Yield Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	7.47 J/cm @Thickness 3.17 mm	14.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 Åµm/m-Å°C	55.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	168 Å°C	335 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.6 Å°C	141 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+14 ohm-cm Metric	1.00e+14 ohm-cm English	ASTM D257 Comments
Dielectric Strength	17.3 kV/mm	440 kV/in	Method A (Short-Time); ASTM D149

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