

Techmer ES Plastiblend[®] PA6/6,6 IM 3757 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-3757-Nylon-666.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	1.6 % @Time 86400 sec	1.6 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.65 GPa	385 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm @Thickness 3.17 mm	5.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	48.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 $\text{Å}^\circ\text{C}$	420 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 $\text{Å}^\circ\text{C}$	160 $\text{Å}^\circ\text{F}$	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+15 ohm-cm Metric	1.00e+15 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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