

Techmer ES Plastiblend[®] PA6/6,6 L N Nylon 6/66

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

Material Notes:

Availability: North America Forms: Pellets Additive: Nucleating Agent and Lubricant Features: Copolymer, Fast Molding Cycle, Nucleated 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-L-N-Nylon-666.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Water Absorption	1.3 % @Time 86400 sec	1.3 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.014 cm/cm @Thickness 3.17 mm	0.014 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Yield	90 %	90 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	91.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	51.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	178 $\text{Å}^\circ\text{C}$	352 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 $\text{Å}^\circ\text{C}$	170 $\text{Å}^\circ\text{F}$	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	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

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