

Techmer ES Luriblend[®] PA6/6 AF10 HS L Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Aramid Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Aramid Fiber, 10% Filler by Weight
Additive: Heat Stabilizer and PTFE Lubricant(10%)
Features: Lubricated, Good Wear Resistance, Low Friction and Heat Stabilized
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-AF10-HS-L-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Water Absorption	0.85 % @Time 86400 sec	0.85 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.17 mm	0.0080 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	91.7 MPa	13300 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	3.52 GPa	510 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.17 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	232 $\text{Å}^\circ\text{C}$	450 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 $\text{Å}^\circ\text{C}$	350 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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