

Techmer ES Luriblend® PA6 GF30 TL15 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Heat Stabilized , Nylon 6, PTFE Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber, 15% Filler by Weight
Additive: Heat Stabilized and PTFE Lubricant(15%)
Features: Lubricated, Good Wear Resistance, Heat Stabilized and Low Friction
Appearance: Natural Color
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA6-GF30-TL15-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Water Absorption	0.95 % @Time 86400 sec	0.95 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	137 MPa	19800 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	197 MPa	28500 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 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
Coefficient of Friction, Dynamic	0.29	0.29	ASTM D1894
Coefficient of Friction, Static	0.23	0.23	ASTM D1894
K (wear) Factor	34.2 x 10 ⁻⁸ mm ³ /N-M	17.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	
Limiting Pressure Velocity	0.543 MPa-m/sec	15500 psi-ft/min	10 fpm
	0.578 MPa-m/sec	16500 psi-ft/min	1000 fpm
	0.631 MPa-m/sec	18000 psi-ft/min	100 fpm

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 $^\circ\text{C}$	420 $^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 $^\circ\text{C}$	420 $^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	16.5 kV/mm	420 kV/in	Method A (Short-Time); ASTM D149

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