

Techmer ES Luriblend® PA6/6 GF33 TS15 BK 33% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Heat Stabilized , Nylon 66, PTFE Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber, 33% Filler by Weight
Additive: Heat Stabilizer, Silicone Lubricant and PTFE Lubricant(15%)
Features: Lubricated, Good Wear Resistance, Heat Stabilized and Low Friction
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-GF33-TS15-BK-33-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	147 MPa	21300 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	221 MPa	32000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Coefficient of Friction, Dynamic	0.28	0.28	ASTM D1894
Coefficient of Friction, Static	0.22	0.22	ASTM D1894
K (wear) Factor	36.3 x 10 ⁻⁸ mm ³ /N-M	18.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	
Limiting Pressure Velocity	0.596 MPa-m/sec	17000 psi-ft/min	10 fpm
	0.596 MPa-m/sec	17000 psi-ft/min	1000 fpm
	0.666 MPa-m/sec	19000 psi-ft/min	100 fpm

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 $\text{Å}^\circ\text{C}$	498 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 $\text{Å}^\circ\text{C}$	490 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	21.7 kV/mm	550 kV/in	Method A (Short-Time); ASTM D149

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