

Techmer ES Luriblend® PA6/6 CF30 TL12 30% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber, 30% Filler by Weight Additive: PTFE + Silicone
Lubricant(15%) Features: Lubricated and Good Wear Resistance TPCI# 6466101 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-CF30-TL12-30-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.00050 cm/cm @Thickness 3.17 mm	0.00050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	200 MPa	29000 psi	ASTM D638
Elongation at Yield	1.6 %	1.6 %	ASTM D638
Flexural Yield Strength	306 MPa	44400 psi	ASTM D790
Flexural Modulus	18.6 GPa	2700 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	7.47 J/cm @Thickness 3.17 mm	14.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.10	0.10	ASTM D1894
Coefficient of Friction, Static	0.090	0.090	ASTM D1894
K (wear) Factor	16.1 x 10 ⁻⁸ mm ³ /N-M	8.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	
Limiting Pressure Velocity	0.771 MPa-m/sec	22000 psi-ft/min	1000 fpm
	1.05 MPa-m/sec	30000 psi-ft/min	10 fpm
	1.54 MPa-m/sec	44000 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 1.8 MPa (264 psi)	249 $^\circ\text{C}$	480 $^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 ohm-cm	10 ohm-cm	ASTM D257

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