

Techmer ES Luriblend® PA6/6 CF30 TL15 HS BK 30% Carbon Filled

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Carbon Fiber, 30% Filler by Weight
Additive: PTFE Lubricant(15%) and Heat Stabilizer
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-CF30-TL15-HS-BK-30-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.48 % @Time 86400 sec	0.48 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	193 MPa	28000 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	286 MPa	41500 psi	ASTM D790
Flexural Modulus	13.7 GPa	1980 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 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	18.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 $^\circ\text{C}$	498 $^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	253 $^\circ\text{C}$	488 $^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 10000 ohm-cm	10 - 10000 ohm-cm	ASTM D257

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