

Techmer ES Luriblend® PA6/6 CF30 TL15 BK 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 Lubricant(15%) Features: Lubricated, Good Wear Resistance and Low Friction Appearance: Black TPC I# 9441101 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-CF30-TL15-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 %	0.48 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

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	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
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
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CTE, linear, Parallel to Flow Thermal Properties	18.0 Åum/m-Å°C Metric	10.0 Åuin/in-Å°F English	ASTM D696 Comments
Deflection Temperature at 0.46 MPa (66 psi)	259 Å°C	498 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	253 Å°C	488 Å°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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