

Techmer ES Luriblend® PA6/6 CF33 ML2 BK 33% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Carbon Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber, 33% Filler by Weight Additive: Molybdenum Disulfide

Lubricant Features: Lubricated, Low Friction and Good Wear Resistance Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-CF33-ML2-BK-33-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Water Absorption	0.48 % @Time 86400 sec	0.48 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 cm/cm @Thickness 3.17 mm	0.0010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	193 MPa	28000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	303 MPa	44000 psi	ASTM D790
Flexural Modulus	17.9 GPa	2600 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.12	0.12	ASTM D1894
Coefficient of Friction, Static	0.12	0.12	ASTM D1894
K (wear) Factor	40.3 x 10 ⁻⁸ mm ³ /N-M	20.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Åµm/m-Å°C	10.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa	260 Å°C	500 Å°F	Unannealed; ASTM D648

(56 psi) Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	257 Â°C	495 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 200 ohm	100 - 200 ohm	ASTM D257

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