

Techmer ES Luriblend® PPA CF30 TL10 30% Carbon Filled

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber + PTFE Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber, 30% Filler by Weight Additive: PTFE Lubricant(10%) Features: Lubricated, Good Wear Resistance, High Heat Resistance and Low Friction Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PPA-CF30-TL10-30-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.60 % @Time 86400 sec	0.60 % @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
Tensile Strength, Yield	186 MPa	27000 psi	ASTM D638
Elongation at Break	2.6 %	2.6 %	ASTM D638
Flexural Strength	283 MPa	41000 psi	ASTM D790
Flexural Modulus	16.5 GPa	2400 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.17 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 µm/m-°C	15.0 µin/in-°F	ASTM D696
Melting Point	296 °C	565 °F	
Deflection Temperature at 0.46 MPa (66 psi)	292 °C	558 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °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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