

Techmer ES Electrablend® PA6 CF30 TL10 30% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber/PTFE Reinforced

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Carbon Fiber Reinforcement, 30% Filler by Weight
Additive: PTFE Lubricant(10%)
Features: Conductive and Lubricated
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA6-CF30-TL10-30-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	186 MPa	27000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	296 MPa	43000 psi	ASTM D790
Flexural Modulus	19.3 GPa	2800 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 Åµm/m-Å°C	11.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257

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