

Techmer ES Electrablend® PA12 CB

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Availability: North America Forms: Pellets Additive: Carbon Black Features: Conductive Appearance: Black TPCI# 9874105 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA12-CB.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Water Absorption	0.23 % @Time 86400 sec	0.23 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0090 cm/cm @Thickness 3.17 mm	0.0090 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	77.9 MPa	11300 psi	ASTM D790
Flexural Modulus	1.76 GPa	255 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm	1.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.6 Åµm/m-Å°C	7.00 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Å°C	140 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm	100 ohm-cm	ASTM D257
Surface Resistance	1000 ohm	1000 ohm	ASTM D257

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