

Techmer ES Electrablend® PA6/6 IM C BK

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Conductive , Nylon 66, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor. Additive: Impact Modifier Features: Conductive and Impact Modified Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA66-IM-C-BK.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 3.17 mm	0.012 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	3.65 GPa	530 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 Åµm/m-Å°C	33.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	199 Å°C	390 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 Å°C	280 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 1.00e+6 ohm-cm	1000 - 1.00e+6 ohm-cm	ASTM D257

Surface Resistance
Electrical Properties

1000 - 1.00e+6 ohm
Metric

1000 - 1.00e+6 ohm
English

ASTM D257
Comments

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