

Techmer ES Electrablend® HDPE C BK

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , HDPE, Fiber Grade

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor. Features: Conductive Appearance: Black TPCI# 9411115 Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.017 cm/cm @Thickness 3.17 mm	0.017 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ASTM D785
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	33.8 MPa	4900 psi	ASTM D790
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm @Thickness 3.17 mm	5.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	96.1 Å°C	205 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 Å°C	130 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 10 ohm-cm	1.0 - 10 ohm-cm	ASTM D257

Electrical Properties	Metric100 ohm	English10 ohm	Comments
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