

Techmer ES Electrablend® ABS CF40 BK 40% Carbon Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 40% Carbon Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber, 40% Filler by Weight Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-ABS-CF40-BK-40-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption	0.14 %	0.14 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	117 MPa	17000 psi	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	19.3 GPa	2800 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 µm/m-°C	11.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	245 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	116 °C	240 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	2500 ohm Metric	2500 ohm English	ASTM D257 Comments
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