

Electrafil® PCA 06006 BK

 Techmer Polymer Modifiers - *Polycarbonate + ABS*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Nickel-Coated Carbon Fiber • Stainless Steel Fiber
Features	• Electromagnetic Shielding (EMI)
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.52		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	5500	psi	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	19500	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	240	°F	ASTM D648
CLTE - Flow	2.7E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	1.0 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0 to 1.0E+3	ohms·cm	ASTM D257
Shielding Effectiveness	65 to 68	dB	ASTM D4935
Static Decay	< 0.1	sec	FTMS 101B
Flammability			
Flame Rating (0.06 in)	HB		UL 94
Additional Information			
TPCI #	9691124		

