Electrafil® J-1200/CF/10

Techmer Polymer Modifiers - *Acrylonitrile Butadiene Styrene*

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight		
Features	• Antistatic	• Electrically Conductive	
Uses	• Automotive Electronics • Bushings	• Business Equipment • Conveyor Parts	• Packaging
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Molding Shrinkage - Flow	1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.10E+6	psi	ASTM D638
Tensile Strength (Break, 73°F)	12000	psi	ASTM D638
Tensile Elongation (Break, 73°F)	1.7	%	ASTM D638
Flexural Modulus (73°F)	1.00E+6	psi	ASTM D790
Flexural Strength (Break, 73°F)	16000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	0.80	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.125 in)	3.5	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	220	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	5.0E+2	ohms	ASTM D257
Volume Resistivity	50	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	HB		UL 94

Additional Information

Surface Resistivity, ASTM D257: 1E2-1E3 ohms/sq
Volume Resistivity, ASTM C611: 10-100 ohm-cm

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170 to 190	°F
Drying Time	2.0 to 16	hr
Rear Temperature	420 to 450	°F
Middle Temperature	430 to 460	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	390 to 430	°F
Processing (Melt) Temp	450 to 500	°F
Mold Temperature	160 to 190	°F