

ElectriPlast® EP-CF/PC/ABS

Polycarbonate + ABS

Integral Technologies, Inc.

Message:

JR 8425569

General Information			
Filler / Reinforcement	Nickel plated carbon fiber		
Features	Self-extinguishing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8460	MPa	ASTM D638
Tensile Strength (Break)	99.0	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	7610	MPa	ASTM D790
Flexural Strength	142	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Unnotched Izod Impact (23°C)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	104	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.5E+2	ohms	ESD STM11.11
Volume Resistivity	38	ohms · cm	ASTM D257
Static Decay	10	msec	Internal method
Surface Resistance	15	ohms	ESD STM11.11
Flammability	Nominal Value	Unit	Test Method
Flame Rating (No Burn)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	252	°C	
Middle Temperature	260	°C	
Front Temperature	263	°C	
Nozzle Temperature	263	°C	
Mold Temperature	65.6	°C	
Back Pressure	2.07	MPa	

Screw Speed	125	rpm
Injection instructions		

Injection Speed: 1 in/sec1st Stage (injection): 2400 psi2nd Stage (molding): 500 psiDecomposition: 0.5 inch

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Recommended distributors for this material

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