

ElectriPlast® EP-CF/PP

Polypropylene

Integral Technologies, Inc.

Message:

ElectriPlast® EP-CF/PP is a polypropylene product that contains nickel-plated carbon fiber. It can be processed by injection molding and is available in North America. The main characteristics are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Nickel plated carbon fiber		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	< 1.00	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5370	MPa	ASTM D638
Tensile Strength (Break)	26.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	4120	MPa	ASTM D790
Flexural Strength	43.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Unnotched Izod Impact (23°C)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	118	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ESD STM11.11
Volume Resistivity	23	ohms · cm	ASTM D257
Static Decay	10	msec	Internal method
Surface Resistance	10	ohms	ESD STM11.11
Flammability	Nominal Value	Unit	Test Method
Burning Rate	20	mm/min	UL 94
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	65.6	°C	
Drying Time	4.0	hr	
Rear Temperature	249	°C	
Middle Temperature	254	°C	
Front Temperature	260	°C	
Nozzle Temperature	260	°C	
Mold Temperature	37.8	°C	
Back Pressure	1.24	MPa	

Screw Speed	185	rpm
Injection instructions		

Injection Speed: 1 in/sec1st Stage (injection): 2400 psi2nd Stage (molding): 300 psiDecomposition: 0.5 inch

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Recommended distributors for this material

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