

# ElectriPlast® EP-CF/ABS

Acrylonitrile Butadiene Styrene

Integral Technologies, Inc.

## Message:

ElectriPlast® EP-CF/ABS is an acrylonitrile butadiene styrene (ABS) product, which 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	1.14	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7100	MPa	ASTM D638
Tensile Strength (Break)	70.0	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	6030	MPa	ASTM D790
Flexural Strength	112	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	51	J/m	ASTM D256
Unnotched Izod Impact (23°C)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	96.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ESD STM11.11
Volume Resistivity	21	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	29	mm/min	UL 94
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	252	°C	
Middle Temperature	257	°C	
Front Temperature	260	°C	
Nozzle Temperature	260	°C	
Mold Temperature	37.8	°C	
Back Pressure	2.21	MPa	

Screw Speed	125	rpm
Injection instructions		

Injection Speed: 1 in/sec1st Stage (injection): 2400 psi2nd Stage (molding): 400 psiDecomposition: 0.5 inch

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