

# ElectriPlast® EP-SS/PC

Polycarbonate

Integral Technologies, Inc.

## Message:

ElectriPlast® EP-SS/PC is a polycarbonate (PC) product containing stainless steel 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	Stainless steel fiber		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4230	MPa	ASTM D638
Tensile Strength (Break)	71.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4120	MPa	ASTM D790
Flexural Strength	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	56	J/m	ASTM D256
Unnotched Izod Impact (23°C)	410	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	136	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	25	ohms	ESD STM11.11
Volume Resistivity	11	ohms · cm	ASTM D257
Static Decay	10	msec	Internal method
Surface Resistance	2.0	ohms	ESD STM11.11
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 17	mm/min	UL 94
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	293	°C	
Middle Temperature	299	°C	
Front Temperature	304	°C	
Nozzle Temperature	299	°C	
Mold Temperature	93.3	°C	
Back Pressure	2.07	MPa	

Screw Speed	85	rpm
Injection instructions		

Injection Speed: 1 in/sec1st Stage (injection): 2400 psi2nd Stage (molding): 1000 psiDecomposition: 0.5 inch

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