

ElectriPlast® EP-SS/PC/ABS

Polycarbonate + ABS

Integral Technologies, Inc.

Message:

ElectriPlast® EP-SS/PC/ABS is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product, which contains stainless steel fiber as filler. 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		
Features	Self-extinguishing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.67	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4950	MPa	ASTM D638
Tensile Strength (Break)	56.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4890	MPa	ASTM D790
Flexural Strength	102	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	57	J/m	ASTM D256
Unnotched Izod Impact (23°C)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	99.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	23	ohms	ESD STM11.11
Volume Resistivity	6.0	ohms · cm	ASTM D257
Static Decay	10	msec	Internal method
Surface Resistance	2.0	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	246	°C	
Middle Temperature	257	°C	
Front Temperature	257	°C	
Nozzle Temperature	268	°C	
Mold Temperature	65.6	°C	
Back Pressure	1.72	MPa	

Screw Speed	75	rpm
Injection instructions		


Injection Speed: 1 in/sec1st Stage (injection): 2400 psi2nd Stage (molding): 1200 psiDecomposition: 0.5 inch

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