

# ElectriPlast® EP-SS/66

Polyamide 66

Integral Technologies, Inc.

## Message:

ElectriPlast® EP-SS/66 is a polyamide 66 (nylon 66) product containing stainless steel fiber. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

heat stabilizer

General Information			
Filler / Reinforcement	Stainless steel fiber		
Additive	heat stabilizer		
Features	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5810	MPa	ASTM D638
Tensile Strength (Break)	84.0	MPa	ASTM D638
Tensile Elongation (Break)	2.8	%	ASTM D638
Flexural Modulus	5370	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	42	J/m	ASTM D256
Unnotched Izod Impact (23°C)	360	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	17	ohms	ESD STM11.11
Volume Resistivity	5.7	ohms · cm	ASTM D257
Static Decay	10	msec	Internal method
Surface Resistance	1.7	ohms	ESD STM11.11
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 15	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	282	°C	
Middle Temperature	277	°C	

Front Temperature	288	°C
Nozzle Temperature	288	°C
Mold Temperature	76.7	°C
Back Pressure	0.517	MPa
Screw Speed	50	rpm

Injection instructions

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

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