ElectriPlast® EP-CF/66

Polyamide 66

Integral Technologies, Inc.

Message:

ElectriPlast®EP-CF/66 is a polyamide 66 (nylon 66) product containing 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		
Features	Self-extinguishing		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11900	MPa	ASTM D638
Tensile Strength (Break)	111	MPa	ASTM D638
Tensile Elongation (Break)	1.4	%	ASTM D638
Flexural Modulus	7830	MPa	ASTM D790
Flexural Strength	199	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Unnotched Izod Impact (23°C)	290	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 250	°C	ASTM D648
CLTE - Flow	1.9E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.37	W/m/K	ASTM D5470
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	3.8E+2	ohms	ESD STM11.11
Volume Resistivity	82	ohms·cm	ASTM D257
Static Decay	10	msec	Internal method
Surface Resistance	38	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	282	°C	
Middle Temperature	288	°C	
Front Temperature	288	°C	
Nozzle Temperature	282	°C	

Mold Temperature	82.2	°C
Back Pressure	3.03	MPa
Screw Speed	170	rpm

Injection instructions

Injection Speed: 2 in/sec1st Stage (injection): 2000 psi2nd Stage (molding): 450 psiDecomposition: 0.5 inch

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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