

RTP EMI 333 G FR

Polycarbonate
RTP Company

Message:
20% Glass Fiber - 15% Stainless Steel Fiber - Electrically Conductive - EMI/RFI/ESD Protection - Flame Retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
	Stainless steel fiber, 15% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Electrostatic discharge protection		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.30	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8960	MPa	ASTM D638
Tensile Strength	105	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 3.0	%	ASTM D638
Flexural Modulus	8410	MPa	ASTM D790
Flexural Strength	171	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	520	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+4	ohms	ASTM D257
--	< 1.0E+3	ohms	ESD STM11.11
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	277 - 304	°C
Mold Temperature	71.1 - 121	°C
Injection Pressure	68.9 - 103	MPa

Injection instructions

Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps. Use a reverse barrel profile. To maximize fiber length, the following injection barrel, screw, and tip designs should be followed. L/D ratio 16/1 - 22/1, Compression ratio 2:1, Flight depth 0.200 in (5 mm) minimum, in feed section, Screw diameter 0.65 - 0.75 in. Remove hopper magnets. Desiccant Type Dryer Required.

NOTE

1. MIL-PRF-81705D, 5kV to 50 V, 12% RH

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