

RTP EMI 331 D FR

Polycarbonate
RTP Company

Message:
10% Glass Fiber - Stainless Steel Fiber - Electrically Conductive - EMI/RFI/ESD Protection - Flame Retardant

General Information			
UL YellowCard	E84658-251425		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight Stainless steel fiber		
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	1.46	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 - 0.40	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	7.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4550	MPa	ASTM D638
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Yield)	3.0 - 5.0	%	ASTM D638
Flexural Modulus	4550	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	430	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+5	ohms	ASTM D257
--	< 1.0E+4	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	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. Remove hopper magnets. Desiccant Type Dryer Required.

NOTE

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

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