RTP EMI 330.5G FR

Polycarbonate

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.
EMI 330 FR Series is a polycarbonate with stainless steel fiber concentrate in a physical bend for EMI shielding. These products are recognized by UL with a rating of 94 V-0 at 1/16 inch (1.5875mm).

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 5.0% filler by weight Stainless steel fiber, 15% filler by weight		
Additive	Flame retardancy		
Features	Electromagnetic shielding (EMI) Electrostatic discharge protection Radio frequency shielding (RFI) Flame retardancy		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
UL File Number	E84658		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.53	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4270	MPa	ASTM D638
Tensile Strength	73.1	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	121	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	480	J/m	ASTM D4812

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	138	°C	ASTM D648
RTI Elec (1.59 mm)	75.0	°C	UL 746
RTI Imp (1.59 mm)	75.0	°C	UL 746
RTI (1.59 mm)	75.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2	ohms	ASTM D257
Volume Resistivity	1.0	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm, ALL)	V-0		UL 94
Additional Information			
Molding Shrinkage, ASTM D 955, 3.175mm: 4-5mm/mShielding Effectiveness, ASTM D4935: 40+ dBStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds			
Injection	**Nominal Value**	**Unit**	
Rear Temperature	288 - 343	°C	
Middle Temperature	288 - 343	°C	
Front Temperature	288 - 343	°C	
Mold Temperature	65.6 - 121	°C	
Injection Pressure	68.9 - 103	MPa	

Recommended distributors for this material

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