

# RTP EMI 330.5D 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, 7.5% 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	1.37	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3930	MPa	ASTM D638
Tensile Strength	70.3	MPa	ASTM D638
Tensile Elongation (Break)	8.5	%	ASTM D638
Flexural Modulus	3030	MPa	ASTM D790
Flexural Strength	102	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	960	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+5	ohms	ASTM D257
Volume Resistivity	1.0E+2	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 D955, 3.175mm: 4-6mm/mShielding Effectiveness, ASTM D4935: 35+ dBfStatic 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

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#### Recommended distributors for this material

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