

# RTP EMI 160.5

Polypropylene  
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.

General Information			
Filler / Reinforcement	Stainless steel fiber, 5.0% filler by weight		
Features	Electromagnetic shielding (EMI)		
	Electrostatic discharge protection		
	Radio frequency shielding (RFI)		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0 - 1.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ASTM D638
Tensile Strength	20.7	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Flexural Strength	27.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1100	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	127	°C	ASTM D648
1.8 MPa, not annealed	71.1	°C	ASTM D648
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			
The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Tensile Elongation@Break, ASTM D-638: 10+%Volume Resistivity, ASTM D-257: <1E2 ohm-cmSurface Resistivity, ASTM D-257: <1E6 ohmStatic Decay, Mil B-81705C: <2.0 seconds			
Injection	Nominal Value	Unit	
Rear Temperature	218 - 274	°C	
Middle Temperature	218 - 274	°C	
Front Temperature	218 - 274	°C	
Mold Temperature	32.2 - 65.6	°C	
Injection Pressure	68.9 - 103	MPa	

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#### Recommended distributors for this material

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