

# RTP EMI 161 HI

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, 10% filler by weight		
Features	Electromagnetic shielding (EMI)		
	Electrostatic discharge protection		
	Impact resistance, high		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm, Injection Molded)	0.90 - 1.4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1450	MPa	ASTM D638
Tensile Strength	21.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus (Injection Molded)	1240	MPa	ASTM D790
Flexural Strength (Injection Molded)	28.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	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, unannealed, injection molded	127	°C	ASTM D648
1.8 MPa, unannealed, injection molded	71.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+5	ohms	ASTM D257
Volume Resistivity	10	ohms·cm	ASTM D257
Additional Information			
Static Decay MIL-PRF-81705D, FTMS-4046.1: 2 sec			
Injection	Nominal Value	Unit	
Rear Temperature	188 - 216	°C	
Middle Temperature	188 - 216	°C	
Front Temperature	188 - 216	°C	
Mold Temperature	38.0 - 52.0	°C	
Injection Pressure	69.0 - 103	MPa	

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#### Recommended distributors for this material

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