

RTP EMI 262A

Polyamide 6
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, 15% filler by weight		
Features	Electromagnetic shielding (EMI)		
	Electrostatic discharge protection		
	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	1.24	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm, Injection Molded)	0.90 - 1.3	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.4	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3100	MPa	ASTM D638
Tensile Strength	83.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus (Injection Molded)	3100	MPa	ASTM D790
Flexural Strength (Injection Molded)	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	199	°C	ASTM D648
1.8 MPa, unannealed, injection molded	82.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257

Volume Resistivity	1.0	ohms · cm	ASTM D257
Additional Information			
Static Decay MIL-PRF-81705D, FTMS-4046.1: <2 sec			
Injection	Nominal Value	Unit	
Rear Temperature	221 - 271	°C	
Middle Temperature	221 - 271	°C	
Front Temperature	221 - 271	°C	
Mold Temperature	54.0 - 93.0	°C	
Injection Pressure	69.0 - 103	MPa	

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Recommended distributors for this material

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