

RTP EMI 1061 FR

Polybutylene Terephthalate

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		
Additive	Flame retardancy		
Features	Electromagnetic shielding (EMI)		
	Antistatic property		
	Flame retardancy		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	152	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)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	216	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
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 (1.52 mm)	V-0		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 5mil/in.Tensile Elongation, ASTM D638: 2-3%Shielding Effectiveness, ASTM D4935: 40+ dB			
Injection	Nominal Value	Unit	
Rear Temperature	232 - 271	°C	
Middle Temperature	232 - 271	°C	
Front Temperature	232 - 271	°C	
Mold Temperature	37.8 - 121	°C	
Injection Pressure	68.9 - 103	MPa	

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Recommended distributors for this material

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