RTP EMI 460.75 HI FR

General Purpose Polystyrene

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/RFI Shielding - Stainless Steel Fiber 7.5% - High Impact - Flame Retardant

General Information			
Filler / Reinforcement	Stainless steel fiber, 7.5% filler by weight		
Features	Conductivity Electromagnetic shielding (EMI) Electrostatic discharge protection Impact resistance, high Radio frequency shielding (RFI) Flame retardancy		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.23	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	44.8	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	87.8	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information			
Surface Resistivity, ASTM D257: <1000000 ohmSurface Resistivity, ESD S11.11: 10%Volume Resistivity, ASTM D257: <1000 ohm-cm			

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	2.0	hr
Processing (Melt) Temp	204 - 246	°C
Mold Temperature	65.6 - 82.2	°C
Injection Pressure	68.9 - 103	MPa

Injection instructions

Remove hopper magnets.Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps.

Recommended distributors for this material

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