RTP ESD C 2101

Polyether Imide

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	Glass fiber reinforced material, 10% filler by weight		
Features	Conductivity		
Agency Ratings	MIL B-81705B		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.40	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.27	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5510	MPa	ASTM D638
Tensile Strength	69.0	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	32	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	210	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms·cm	ASTM D257
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D955, 0.125in.: 2-3mil/in.Tensile Elongation, ASTM D638: 1-2%NFPA Code 56A, Static Decay, FTMS-4046, 0.5 sec: PassesVolume Resistivity, ASTM D257: 10E3 ohm-cmSurface Resistivity, ASTM D257: 10E6 ohm/sq			
Injection	**Nominal Value**	**Unit**	

Rear Temperature	343 - 399	°C
Middle Temperature	343 - 399	°C
Front Temperature	343 - 399	°C
Mold Temperature	93.3 - 177	°C
Injection Pressure	103 - 138	MPa

Recommended distributors for this material

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