

RTP ESD A 2101

Polyether Imide
RTP Company

Message:
Glass Fiber - ESD Protection - Static Dissipative

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Electrostatic discharge protection		
	Static conduction		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.50	%	ASTM D955
Moisture Content	0.040	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5520	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 4.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	207	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+5 - 9.9E+11	ohms	ASTM D257
--	1.0E+4 - 9.9E+10	ohms	ESD STM11.11
Volume Resistivity	1.0E+3 - 9.9E+9	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0	hr	

Dew Point	-28.9	°C
Processing (Melt) Temp	354 - 399	°C
Mold Temperature	135 - 177	°C
Injection Pressure	82.7 - 124	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

1. MIL-PRF-81705D, 5kV to 50 V, 12% RH

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