

RTP ESD A 2180 EM

Polyether Imide

RTP Company

Message:

Carbon Fiber - ESD Protection - Static Dissipative - Easy Molding

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Electrostatic discharge protection		
	Static conduction		
	Good formability		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Moisture Content	0.040	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Yield)	2.5 - 5.5	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	248	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)	560	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	204	°C	ASTM D648
1.8 MPa, not annealed	202	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+6 - 1.0E+10	ohms	ASTM D257
--	1.0E+5 - 1.0E+9	ohms	ESD STM11.11
Volume Resistivity	1.0E+3 - 1.0E+7	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm, ** Values per RTP Company testing.)			V-0	UL 94
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.				

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