

RTP ESD C 1080

Polybutylene Terephthalate

RTP Company

Message:

Carbon Fiber - ESD Protection - Electrically Conductive

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Electrostatic discharge protection		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.30	%	ASTM D955
Moisture Content	0.030	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	40	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	430	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+6	ohms	ASTM D257
--	< 1.0E+5	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+3	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	238 - 271	°C	

Mold Temperature	79.4 - 107	°C
Injection Pressure	68.9 - 103	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		

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

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Recommended distributors for this material

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