

RTP 1099 X 115081 D

Polybutylene Terephthalate

RTP Company

Message:

Carbon Nanotube - ESD Protection

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	Electrostatic discharge protection		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.30	%	ASTM D955
Moisture Content	0.030	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	60.0	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+5 - 1.0E+8	ohms	ASTM D257
--	1.0E+4 - 1.0E+7	ohms	ESD STM11.11
Volume Resistivity	10 - 1.0E+3	ohms · cm	ASTM D257
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.

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