

RTP ESD C 1080 TFE 15

Polybutylene Terephthalate

RTP Company

Message:

Carbon Fiber - Electrically Conductive - ESD Protection - PTFE Lubricated

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant (15%)		
Features	Conductivity		
	Electrostatic discharge protection		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.40	%	ASTM D955
Moisture Content	0.030	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	117	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 3.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	186	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	182	°C	ASTM D648
1.8 MPa, not annealed	171	°C	ASTM D648
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
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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Recommended distributors for this material

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