

RTP 2299 X 117879 A

Polyetheretherketone

RTP Company

Message:

Carbon Nanotube - Static Dissipative - ESD Protection - High Purity

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	High purity		
	Electrostatic discharge protection		
	Static conduction		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.2 - 1.8	%	ASTM D955
Moisture Content	0.10	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4830	MPa	ASTM D638
Tensile Strength	93.1	MPa	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
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+2 - 1.0E+5	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	3.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	349 - 399	°C	
Mold Temperature	163 - 218	°C	
Injection Pressure	82.7 - 124	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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