

RTP 2299 X 133087 A EG

Polyetheretherketone

RTP Company

Message:

Carbon Nanotube - Static Dissipative - Extrusion Grade - (Preliminary Data Sheet)

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	Static conduction		
RoHS Compliance	Contact manufacturer		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.5 - 2.5	%	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	96.5	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 3.5	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	171	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+8	ohms	ASTM D257
--	< 1.0E+7	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+2	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	
Dew Point	-28.9	°C	
Injection Pressure	82.7 - 124	MPa	

Injection instructions

Desiccant Type Dryer Required.

Extrusion	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0	hr
Melt Temperature	360 - 399	°C
Die Temperature	163 - 218	°C

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