

RTP 1399 X 97649 D

Polyphenylene Sulfide

RTP Company

Message:

Thermally Conductive - Electrically Conductive - ESD Protection

General Information			
Features	Electrically Conductive		
	ESD Protection		
	Thermally Conductive		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955
Moisture Content	0.040	%	
Static Decay	< 2.0	sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19300	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation (Yield)	0.50	%	ASTM D638
Flexural Modulus	17900	MPa	ASTM D790
Flexural Strength	95.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	21	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	75	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE			ASTM E831
Flow	1.4E-5	cm/cm/°C	
Transverse	3.2E-5	cm/cm/°C	
Thermal Conductivity ¹	2.2	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+5	ohms	ASTM D257
--	< 1.0E+4	ohms	ESD STM11.11
Volume Resistivity	< 10	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	149	°C
Drying Time	6.0	hr
Processing (Melt) Temp	307 to 329	°C
Mold Temperature	135 to 177	°C
Injection Pressure	68.9 to 103	MPa

NOTE

1. Through-plane

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