

RTP 1399 X 128637 B

Polyphenylene Sulfide

RTP Company

Message:

Thermally Conductive - Electrically Conductive

General Information			
Features	Electrically Conductive		
	Thermally Conductive		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Moisture Content	0.040	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12100	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	< 1.0	%	ASTM D638
Flexural Modulus	12100	MPa	ASTM D790
Flexural Strength	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	80	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	238	°C	ASTM D648
Thermal Conductivity			
-- ¹	3.0	W/m/K	ASTM E1530
-- ²	22	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	ASTM D257
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	
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	
2.	In-plane	

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