

RTP 1399 X 130032 A

Polyphenylene Sulfide

RTP Company

Message:

Thermally Conductive - Glass Fiber - Electrically Conductive - EMI/RFI Shielding - (Preliminary Data Sheet)

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Conductivity		
	Heat conduction		
	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.15	%	ASTM D955
Moisture Content	0.040	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19300	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Yield)	< 1.0	%	ASTM D638
Flexural Modulus	17900	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	96	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)	271	°C	ASTM D648
Thermal Conductivity			
-- ¹	0.60	W/m/K	ASTM E1530
-- ²	3.0	W/m/K	ASTM E1461
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+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 - 329	°C	
Mold Temperature	135 - 177	°C	
Injection Pressure	68.9 - 103	MPa	
Injection instructions			
Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps.Remove hopper magnets.			
NOTE			
1.	Through-plane		
2.	In-plane		

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