

RTP ESD A 1305

Polyphenylene Sulfide

RTP Company

Message:

Glass Fiber - ESD Protection - Static Dissipative

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	ESD Protection		
	Statically Conductive		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.30	%	ASTM D955
Moisture Content	0.040	%	
Static Decay ¹	< 2.0	sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	86.2	MPa	ASTM D638
Tensile Elongation (Yield)	0.50 to 1.5	%	ASTM D638
Flexural Modulus	12100	MPa	ASTM D790
Flexural Strength	117	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)	130	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	266	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+5 to 9.9E+11	ohms	ASTM D257
--	1.0E+4 to 9.9E+10	ohms	ESD STM11.11
Volume Resistivity	1.0E+3 to 9.9E+9	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.	MIL-PRF-81705D, 5kV to 50 V, 12% RH	

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