

RTP 1499 P X 125056 B

Polyphenylsulfone

RTP Company

Message:

Stainless Steel Fiber - EMI/RFI Shielding

General Information			
Filler / Reinforcement	Stainless steel fiber, 15% filler by weight		
Features	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.80	%	ASTM D955
Moisture Content	0.040	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	84.1	MPa	ASTM D638
Tensile Elongation (Yield)	8.4	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
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	
Dew Point	-31.7	°C	
Processing (Melt) Temp	343 - 377	°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. Desiccant Type Dryer Required.

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