

RTP 2099 X 128018 B

Polycarbonate + PBT

RTP Company

Message:

Glass Fiber - Stainless Steel Fiber - Electrically Conductive - EMI/RFI Shielding - (Preliminary Datasheet)

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Stainless steel fiber		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15 - 0.35	%	ASTM D955
Moisture Content		%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7930	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 4.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	850	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	141	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+5	ohms	ASTM D257
--	< 1.0E+4	ohms	ESD STM11.11
Volume Resistivity	< 1.0	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	4.0	hr
Dew Point	< -28.9	°C
Processing (Melt) Temp	254 - 282	°C
Mold Temperature	54.4 - 82.2	°C
Injection Pressure	103 - 138	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. Desiccant Type Dryer Required.

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