

PermaStat® 100.5

Polypropylene

RTP Company

Message:

Permanently Anti-static - ESD Protection - Glass Fiber

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 5.0% filler by weight		
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.80	%	ASTM D955
Moisture Content	0.10	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	5.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	30.3	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	43.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	800	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+9 - 9.9E+10	ohms	ESD STM11.11
--	1.0E+10 - 9.9E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9 - 9.9E+10	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	171 - 204	°C	

Mold Temperature	32 - 66	°C
Injection Pressure	48.3 - 75.8	MPa
Injection instructions		
Do not exceed 520 °F (270 °C) melt temperature.Desiccant Type Dryer Required.		
NOTE		

1. MIL-PRF-81705D, 5kV to 50 V, 12% RH

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