

PermaStat® 302 FR

Polycarbonate

RTP Company

Message:

ESD Protection - Permanently Anti-static - Glass Fiber - Flame Retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Electrostatic discharge protection		
	Antistatic property		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.25 - 0.45	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	58.6	MPa	ASTM D638
Tensile Elongation (Yield)	4.0 - 6.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	530	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+10 - 1.0E+12	ohms	ASTM D257
--	1.0E+9 - 1.0E+11	ohms	ESD STM11.11
Volume Resistivity	1.0E+9 - 1.0E+11	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	121	°C	
Drying Time	4.0	hr	
Dew Point	-28.9	°C	

Processing (Melt) Temp	221 - 243	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	41.4 - 68.9	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

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

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