

PermaStat PLUS® 400

General Purpose Polystyrene

RTP Company

Message:

ESD Protection - Permanently Static Dissipative - Preliminary Datasheet

General Information			
Features	Electrostatic discharge protection		
	Static conduction		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1520	MPa	ASTM D638
Tensile Strength	20.7	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Flexural Strength	37.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	430	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8 - 9.9E+9	ohms	ASTM D257
Volume Resistivity	1.0E+7 - 9.9E+8	ohms · cm	ASTM D257
Static Decay ¹		sec	FTMS 101C 4046.1
Injection	Nominal Value	Unit	
Drying Temperature	82	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	193 - 232	°C	
Mold Temperature	38 - 66	°C	
Injection Pressure	68.9 - 103	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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