

PermaStat® 100 MD NAT/CLEAR

Polypropylene

RTP Company

Message:

Permanently Anti-static - ESD Protection

General Information			
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.4 - 2.0	%	ASTM D955
Moisture Content	0.10	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	689	MPa	ASTM D638
Tensile Strength	20.7	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790
Flexural Strength	27.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	160	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 - 9.9E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9 - 9.9E+10	ohms · cm	ASTM D257
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.			
NOTE			

1.

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

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