

RTP 799 X 143520 B

High Density Polyethylene
RTP Company

Message:
ESD Protection - Permanently Anti-static - Preliminary Datasheet

General Information			
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15 - 18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.0 - 3.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	414	MPa	ASTM D638
Tensile Strength	14.5	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	483	MPa	ASTM D790
Flexural Strength	15.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+11	ohms	ASTM D257
Volume Resistivity	< 1.0E+10	ohms · cm	ASTM D257
Static Decay ¹		sec	FTMS 101C 4046.1
Injection	Nominal Value	Unit	
Drying Temperature	79	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	193 - 232	°C	
Mold Temperature	21 - 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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