

RTP 799 X 144652 A EG

High Density Polyethylene
RTP Company

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

General Information			
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 1.0	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	689	MPa	ASTM D638
Tensile Strength	19.3	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	689	MPa	ASTM D790
Flexural Strength	20.7	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+12	ohms	ASTM D257
Volume Resistivity	< 1.0E+11	ohms · cm	ASTM D257
Static Decay ¹		sec	FTMS 101C 4046.1

Injection	Nominal Value	Unit
Injection Pressure	68.9 - 103	MPa

Injection instructions		
Do not exceed 520 °F (270 °C) melt temperature.Desiccant Type Dryer Required.		

Extrusion	Nominal Value	Unit
Drying Temperature	79	°C
Drying Time	2.0	hr
Melt Temperature	193 - 232	°C

Die Temperature	21 - 66	°C
NOTE		
1.	MIL-PRF-81705D, 5kV to 50 V, 12% RH	

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