

RTP 799 X 143538 EG

High Density Polyethylene
RTP Company

Message:
ESD Protection - Extrusion Grade - Preliminary Datasheet

General Information			
Features	Electrostatic discharge protection		
RoHS Compliance	Contact manufacturer		
Processing Method	Extrusion		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	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)	2.0 - 3.0	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ASTM D638
Tensile Strength	27.6	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	34.5	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)	No Break		ASTM D4812

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+6	ohms	ASTM D257
Volume Resistivity	< 1.0E+5	ohms · cm	ASTM D257
Static Decay ¹		sec	FTMS 101C 4046.1

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

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

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