

RTP 799 X 143524 EG

High Density Polyethylene
RTP Company

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

General Information			
Features	Electrostatic discharge protection		
	Antistatic property		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Extrusion		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 2.0	g/10 min	ASTM D1238
Moisture Content		%	
Static Decay ¹		sec	FTMS 101C 4046.1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1030	MPa	ASTM D638
Tensile Strength	17.2	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Flexural Strength	27.6	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	640	J/m	ASTM D4812

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 - 9.9E+11	ohms	ASTM D257
Volume Resistivity	1.0E+8 - 9.9E+10	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.0 mm, ** Values per RTP Company testing.)	V-0		UL 94

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

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