

RTP 499 X 143542 B EG

General Purpose Polystyrene

RTP Company

Message:

ESD Protection - Permanently Static Dissipative - Extrusion Grade - Preliminary Datasheet

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Moisture Content		%	
Static Decay ¹		sec	FTMS 101C 4046.1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ASTM D638
Tensile Strength	22.1	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	42.7	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)	530	J/m	ASTM D4812

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+7 - 9.9E+8	ohms	ESD STM11.11
--	1.0E+8 - 9.9E+9	ohms	ASTM D257
Volume Resistivity	1.0E+7 - 9.9E+8	ohms·cm	ASTM D257

Injection instructions			
Do not exceed 520 °F (270 °C) melt temperature.Desiccant Type Dryer Required.			
Extrusion	Nominal Value	Unit	
Drying Temperature	82	°C	
Drying Time	2.0	hr	
Melt Temperature	193 - 238	°C	
NOTE			

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