

RTP 699 X 141368 B NS

Acrylonitrile Butadiene Styrene
RTP Company

Message:
ESD Protection - Permanently Anti-static - Transparent

General Information			
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	13 - 17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.80	%	ASTM D955
Moisture Content	0.10	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	35.9	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	57.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	190	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	1500	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 5.0E+10	ohms	ESD STM11.11
--	< 5.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+8 - 9.9E+9	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82	°C	
Drying Time	2.0 - 4.0	hr	
Dew Point	-18	°C	
Processing (Melt) Temp	204 - 238	°C	
Mold Temperature	63 - 85	°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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