

RTP 399 X 141398

Polycarbonate

RTP Company

Message:

ESD Protection - Permanently Static Dissipative - Flame Retardant - UV Stabilized - Preliminary Datasheet

General Information			
Additive	UV stabilizer		
Features	UV Stabilized		
	Electrostatic discharge protection		
	Static conduction		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation (Yield)	6.0 - 10	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	210	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	1300	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+9	ohms	ESD STM11.11
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	93	°C	
Drying Time	4.0 - 6.0	hr	
Dew Point	-29	°C	
Processing (Melt) Temp	227 - 249	°C	
Mold Temperature	49 - 93	°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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