

RTP 2099 X 121241 B

Polylactic Acid + PC

RTP Company

Message:

PC-PLA Blend - ESD Protection - Permanently Anti-static - 26% Renewable Resource Content

General Information			
Features	Electrostatic discharge protection		
	Antistatic property		
	Updatable resources		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength	35.9	MPa	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	55.2	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)	850	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 - 1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+8 - 1.0E+11	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Dew Point	-40.0	°C	
Processing (Melt) Temp	221 - 243	°C	

Mold Temperature	23.9 - 71.1	°C
Injection Pressure	55.2 - 103	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		

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

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