

RTP 399 X 91042

Polycarbonate
RTP Company

Message:
Thermally Conductive - Electrically Insulative

General Information			
Features	Heat conduction		
	Insulation		
RoHS Compliance		Contact manufacturer	
Processing Method		Injection molding	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10	%	ASTM D955
Moisture Content	0.020	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21400	MPa	ASTM D638
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	0.40	%	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	21	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	80	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	116	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow	1.6E-5	cm/cm/°C	ASTM E831
Lateral	5.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity			
-- ¹	1.0	W/m/K	ASTM E1530
-- ²	5.0	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+12	ohms · cm	ASTM D257
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	3.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	288 - 316	°C
Mold Temperature	82.2 - 121	°C
Injection Pressure	68.9 - 103	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

1. Through-plane
2. In-plane

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