

RTP 3499-3 X 102947 B

Liquid Crystal Polymer

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	2.70	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation (Yield)	0.70	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	32	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	130	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	241	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow	1.7E-5	cm/cm/°C	ASTM E831
Lateral	6.9E-5	cm/cm/°C	ASTM E831
Thermal Conductivity ¹	1.6	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+12	ohms · cm	ASTM D257
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	149	°C	
Drying Time	8.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	332 - 366	°C	

Mold Temperature	65.6 - 121	°C
Injection Pressure	82.7 - 124	MPa
Injection instructions		
The key to successfully molding this material is to start mold open cycles as soon as the screw reaches its retracted position.		
NOTE		
1.	Through-plane	

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