

RTP 3499-3 X 92886

Liquid Crystal Polymer

RTP Company

Message:

Thermally Conductive - Electrically Conductive - Sloughing

General Information			
Features	Conductivity		
	Heat conduction		
	No shedding		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24100	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	0.40	%	ASTM D638
Flexural Modulus	17900	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)	59	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	232	°C	ASTM D648
Thermal Conductivity			
-- ¹	3.0	W/m/K	ASTM E1530
-- ²	18	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	ASTM D257
Volume Resistivity	< 10	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
2. In-plane

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