

RTP 3499-3 X 113393 A

Liquid Crystal Polymer

RTP Company

Message:

Glass Fiber - LDS Platable

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Electroplateable		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.76	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	123	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	165	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)	750	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	277	°C	ASTM D648
1.8 MPa, not annealed	235	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow	5.9E-6	cm/cm/°C	ASTM E831
Lateral	6.5E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.030		ASTM D150
Flammability	Nominal Value		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	327 - 360	°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.

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