

RTP 3400 M-350

Liquid Crystal Polymer

RTP Company

Message:

Mineral

General Information			
Filler / Reinforcement	Mineral filler		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.020	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	51.7	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	243	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹ (in Oil)	35	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	0.034		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	Test Method
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. Method A (short time)

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