

RTP 3400 FC-110

Liquid Crystal Polymer

RTP Company

Message:

Glass Fiber - UL94 V-0

General Information			
UL YellowCard	E84658-251348		
Filler / Reinforcement	Glass fiber reinforced material		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	450	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	316	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.400 mm)	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	363 - 399	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection Pressure	68.9 - 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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