

# RTP 3400 FC-130

Liquid Crystal Polymer

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.  
Mineral Reinforced - UL94 V-0

General Information			
UL YellowCard	E84658-251349		
Filler / Reinforcement	Mineral filler		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation (Yield)	0.75	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	82.7	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)	80	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup> (in Oil)	38	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.025		ASTM D150
Arc Resistance	244	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Additional Information			
Dew Point: -20°F Tensile Elongation, ASTM D638: 0.5 to 1% Volume Resistivity, ASTM D257: > 1E+15 ohm-cm			

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	8.0	hr
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.

#### NOTE

1. Method A (short time)

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#### Recommended distributors for this material

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