

RTP 3400 MG-450

Liquid Crystal Polymer

RTP Company

Message:

Glass Fiber - Mineral - UL94 V-0

General Information			
UL YellowCard	E84658-251355		
Filler / Reinforcement	Glass fiber reinforced material Mineral filler		
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)	0.050 - 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11700	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	131	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)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	293	°C	ASTM D648
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	0.030		ASTM D150
Flammability	Nominal Value		Test Method
Flame Rating (0.800 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
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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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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