RTP 3407-4

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.

The 3400 Series is based on a self-reinforcing crystalline polymer. Liquid crystal polymers offer outstanding heat and chemical resistance. Its unique properties combined with excellent flowability give these compounds a wide range of applications.

-Preliminary Product Data per RTP Co.-

General Information				
UL YellowCard	E84658-251359			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant			
	Good Chemical Resistance			
	High Flow			
	High Heat Resistance			
RoHS Compliance	Contact Manufacturer			
UL File Number	E84658			
Appearance	Black			
	Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.70	g/cm³	ASTM D792	
Molding Shrinkage - Flow	0.030	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	105		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	19300	MPa	ASTM D638	
Tensile Strength			ASTM D638	
Yield	148	MPa		
	103	MPa		
Tensile Elongation (Break)	1.0	%	ASTM D638	
Flexural Modulus	15900	MPa	ASTM D790	
Flexural Strength			ASTM D790	
	145	MPa		
Yield	214	MPa		
Impact	Nominal Value	Unit	Test Method	

Notched Izod Impact (3.18 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	270	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	321	°C	ASTM D648
RTI Elec			UL 746
0.305 mm	130	°C	
1.59 mm	130	°C	
RTI Imp			UL 746
0.305 mm	130	°C	
1.59 mm	130	°C	
RTI Str			UL 746
0.305 mm	130	°C	
1.59 mm	130	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	26	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.60		ASTM D150
Dissipation Factor (1 MHz)	0.024		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.305 mm, BK, NC	V-0		
1.59 mm, BK, NC	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	8.0	hr	
Suggested Max Regrind	20	%	
Rear Temperature	360 to 391	°C	
Middle Temperature	360 to 391	°C	
Front Temperature	360 to 391	°C	
Nozzle Temperature	343 to 379	°C	
Mold Temperature	65.6 to 93.3	°C	
Injection Pressure	55.2 to 124	MPa	
Clamp Tonnage	5.5 to 11	kN/cm ²	

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Recommended distributors for this material

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