

Zenite® 5130L

Liquid Crystal Polymer
Celanese Corporation

Message:

Zenite 5130L is a 30% glass-reinforced LCP resin with improved toughness

General Information			
UL YellowCard	E344082-100831257		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Good toughness		
	Lubrication		
RoHS Compliance		Contact manufacturer	
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.73	%	ISO 294-4
Flow direction	0.050	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/1
Tensile Stress (Break)	145	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	275	°C	ISO 75-2/A
Melting Temperature ¹	320	°C	ISO 11357-3
Electrical	Nominal Value		Test Method
Relative Permittivity			
1 MHz	3.30		IEC 60250
2.05 GHz	4.07		IPC TM-650 2.5.5.13
Dissipation Factor			
1 MHz	8.0E-3		IEC 60250
2.05 GHz	4.0E-3		IPC TM-650 2.5.5.13
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	

Drying Time	3.0	hr
Suggested Max Moisture	0.010	%
Hopper Temperature	20.0 - 30.0	°C
Rear Temperature	320 - 330	°C
Middle Temperature	335 - 345	°C
Front Temperature	335 - 345	°C
Nozzle Temperature	335 - 345	°C
Processing (Melt) Temp	325 - 345	°C
Mold Temperature	80.0 - 120	°C
Injection Pressure	50.0 - 150	MPa
Holding Pressure	50.0 - 150	MPa
Back Pressure	0.00 - 3.00	MPa

Injection instructions

Feed Temperature: 40 to 60°C Zone 4 Temperature: 335 to 345°C

NOTE

1. 10°C/min

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