

Zenite® 5115L

Liquid Crystal Polymer
Celanese Corporation

Message:

Zenite® 5115L is a 15% glass fiber reinforced liquid crystal polymer for injection molding with improved toughness.

General Information			
UL YellowCard	E344082-100831256		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Good toughness		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	175	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	10500	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	319	°C	ISO 11357-3
Electrical	Nominal Value		Test Method
Relative Permittivity			
1 MHz	2.50		IEC 60250
2.05 GHz	3.76		IPC TM-650 2.5.5.13
Dissipation Factor			
1 MHz	0.016		IEC 60250
2.05 GHz	3.0E-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°CZone 4 Temperature: 335 to 345°C

NOTE

1. 10°C/min

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Recommended distributors for this material

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