

Zenite® 5244L

Liquid Crystal Polymer
Celanese Corporation

Message:

Zenite 5244L is a 40% glass/mineral reinforced LCP resin with improved toughness.

General Information			
UL YellowCard	E344082-100831259		
Filler / Reinforcement	Glass \mineral, 40% filler by weight		
Features	Good toughness		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.40	%	ISO 294-4
Flow direction	0.10	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	131	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	13100	MPa	ISO 178
Flexural Stress (23°C)	198	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	27	kJ/m ²	ISO 179/1eU
Unnotched Izod Impact Strength (23°C)	28	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	285	°C	ISO 75-2/A
Melting Temperature ¹	318	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	6.0E-6	cm/cm/°C	ISO 11359-2
Lateral	4.8E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value		Test Method
Relative Permittivity (2.05 GHz)	4.18		Internal method
Dissipation Factor (2.05 GHz)	4.0E-3		Internal method
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	V-0		UL 94
1.50 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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