

Zenite® 6130L

Liquid Crystal Polymer
Celanese Corporation

Message:

Zenite® 6130L is a lubricated 30% glass reinforced LCP resin. It is well suited for use in automotive, electrical/electronic, telecommunications, and aerospace industries.

General Information			
UL YellowCard	E344082-100831262	E344082-100831263	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Lubrication		
Uses	Electrical/Electronic Applications		
	Aerospace applications		
	Application in Automobile Field		
	Communication Equipment		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	265	°C	ISO 75-2/A
Melting Temperature ¹	335	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	3.0E-6	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	36	kV/mm	IEC 60243-1
Relative Permittivity			
1 MHz	4.00		IEC 60250

2.05 GHz	4.16		Internal method
Dissipation Factor			
1 MHz	0.031		IEC 60250
2.05 GHz	5.0E-3		Internal method
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.380 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	335 - 345	°C	
Middle Temperature	350 - 360	°C	
Front Temperature	350 - 360	°C	
Nozzle Temperature	350 - 360	°C	
Processing (Melt) Temp	350 - 360	°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: 350 to 360°C			
NOTE			
1.	10°C/min		

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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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