Zenite® 6130LX

Liquid Crystal Polymer

Celanese Corporation

Message:

Zenite® 6130LX is a 30% glass fiber reinforced liquid crystal polymer for injection molding. and It is well suited for all kinds of demanding applications.

General Information			
UL YellowCard	E344082-100831264		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.66	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.60	%	ISO 294-4
Flow direction	0.12	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	145	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12800	MPa	ISO 178
Flexural Stress (23°C)	220	MPa	ISO 178
Compressive Stress	133	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	15	kJ/m²	ISO 179/1eA
23°C	15	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	280	°C	ISO 75-2/A
Melting Temperature [1]	335	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	5.0E-6	cm/cm/°C	ISO 11359-2
Lateral	6.2E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	34	kV/mm	IEC 60243-1
Relative Permittivity			

1 MHz	4.00		IEC 60250
2.05 GHz	4.27		Internal method
Dissipation Factor			
1 MHz	0.031		IEC 60250
2.05 GHz	6.0E-3		Internal method
Comparative Tracking Index	200	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.750 mm	V-0		UL 94
1.50 mm	V-0		UL 94
Oxygen Index	51	%	ISO 4589-2
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

Recommended distributors for this material

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