

Zenite® 7130

Liquid Crystal Polymer
Celanese Corporation

Message:

Zenite® 7130 is a 30% glass fiber reinforced and lubricated liquid crystal polymer for injection molding. It has excellent impact resistance and excellent heat deflection temperature.

General Information			
UL YellowCard	E344082-100831271	E344082-100831272	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Impact resistance, good		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.60	%	ISO 294-4
Flow direction	0.010	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	150	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.5	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	13000	MPa	ISO 178
Flexural Stress (23°C)	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	20	kJ/m ²	ISO 179/1eA
23°C	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	22	kJ/m ²	ISO 179/1eU
23°C	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	18	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	310	°C	ISO 75-2/A
Glass Transition Temperature ¹	120	°C	ISO 11357-2
Melting Temperature ²	352	°C	ISO 11357-3

Linear thermal expansion coefficient			ISO 11359-2
Flow	3.0E-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	45	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.10		IEC 60250
1 MHz	3.70		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	0.014		IEC 60250
1 MHz	0.030		IEC 60250
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 mm)	V-0		UL 94
Oxygen Index	45	%	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	355 - 365	°C	
Middle Temperature	360 - 370	°C	
Front Temperature	360 - 370	°C	
Nozzle Temperature	360 - 370	°C	
Processing (Melt) Temp	360 - 370	°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: 360 to 370°C			
NOTE			
1.	10°C/min		
2.	10°C/min		

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