

Zenite® 7130

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

	General Ir	nformation		
Product Description				
Zenite® 7130 is a 30% glass fiber reinforc deflection temperature.	ed liquid crystal polymer for inje	ction molding. It has excelle	nt impact	resistance and excellent heat
General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America		North America
Filler / Reinforcement	Glass Fiber, 30% Filler by V	Veight		
Features	Good Impact Resistance			
RoHS Compliance	Contact Manufacturer			
Processing Method	Injection Molding			
	ASTM & ISO	Properties ¹		
Physical		Nominal Value	Unit	Test Method
Density		1.62	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow		0.60	%	
Flow		0.0	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		2.47E+6	psi	ISO 527-2/1A
Tensile Stress (Break)		21800	psi	ISO 527-2/1A/5
Tensile Strain (Break)		1.5	%	ISO 527-2/1A/5
Flexural Modulus (73°F)		1.89E+6	psi	ISO 178
Flexural Stress (73°F)		30500	psi	ISO 178
mpact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F		9.5	ft·lb/in²	
73°F		9.5	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F		10	ft·lb/in²	
73°F		14	ft·lb/in²	
Notched Izod Impact Strength (73°F)		8.6	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)		14	ft·lb/in²	ISO 180/1U
Гhermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Una	annealed)	590	°F	ISO 75-2/A
Glass Transition Temperature ²		248	°F	ISO 11357-2
Melting Temperature ²		666	°F	ISO 11357-3
CLTE - Flow		1.7E-6	in/in/°F	ISO 11359-2



CLTE - Transverse

3.4E-5 in/in/°F

ISO 11359-2

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	1100	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.10		
1 MHz	3.70		
Dissipation Factor			IEC 60250
100 Hz	0.014		
1 MHz	0.030		
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.016 in)	V-0		UL 94
Oxygen Index	45	%	ISO 4589-2

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	302	°F		
Drying Time	3.0	hr		
Suggested Max Moisture	0.010	%		
Hopper Temperature	68 to 86	°F		
Rear Temperature	671 to 689	°F		
Middle Temperature	680 to 698	°F		
Front Temperature	680 to 698	°F		
Nozzle Temperature	680 to 698	°F		
Processing (Melt) Temp	680 to 698	°F		
Mold Temperature	176 to 248	°F		
Back Pressure	< 435	psi		

Feeding zone temperature: 40 to 60°C Zone4 temperature: 360 to 370°C

Notes

¹ Typical properties: these are not to be construed as specifications.



² 10°C/min