



Zenite® 6130LX

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.18E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	21000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.86E+6	psi	ISO 178
Flexural Stress (73°F)	31900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	7.1	ft·lb/in ²	
73°F	7.1	ft·lb/in ²	
Charpy Unnotched Impact Strength (73°F)	19	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	536	°F	ISO 75-2/A
Melting Temperature ²	635	°F	ISO 11357-3
CLTE - Flow	2.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse	3.4E-5	in/in/°F	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
Electric Strength	860	V/mil	IEC 60243-1
Relative Permittivity (1 MHz)	4.00		IEC 60250
Dissipation Factor (1 MHz)	0.031		IEC 60250
Comparative Tracking Index	175	V	IEC 60112

Zenite® 6130LX

Celanese Corporation - Liquid Crystal Polymer

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in		V-0	
0.06 in		V-0	
Oxygen Index	51	%	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	635 to 653	°F
Middle Temperature	662 to 680	°F
Front Temperature	662 to 680	°F
Nozzle Temperature	662 to 680	°F
Processing (Melt) Temp	662 to 680	°F
Mold Temperature	176 to 248	°F
Back Pressure	< 435	psi

Injection Notes

Feeding zone temperature: 40 to 60°C
Zone4 temperature: 350 to 360°C

Notes

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

² 10°C/min