



Zenite® 6330

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

Zenite® 6330 is a 30% mineral reinforced liquid crystal polymer for injection molding. It has excellent impact resistance, excellent heat deflection temperature and 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	• Mineral, 30% Filler by Weight
Features	• Good Impact Resistance
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.45E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	18900	psi	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.38E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.8	ft-lb/in ²	
73°F	4.3	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	19	ft-lb/in ²	
73°F	29	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	527	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	473	°F	ISO 75-2/A
Glass Transition Temperature ²	248	°F	ISO 11357-2
Melting Temperature ²	635	°F	ISO 11357-3
CLTE - Flow	4.4E-6	in/in/°F	ISO 11359-2
CLTE - Transverse	2.2E-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	890	V/mil	IEC 60243-1

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Electrical	Nominal Value	Unit	Test Method
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.40		
Dissipation Factor			IEC 60250
100 Hz	0.014		
1 MHz	0.031		
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in	V-0		
0.06 in	V-0		
Oxygen Index	47	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	302	°F
Drying Time	3.0	hr
Suggested Max Moisture	0.010	%
Processing (Melt) Temp	662 to 680	°F
Mold Temperature	104 to 302	°F

Notes

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

² 10°C/min