Celanese
The chemistry inside innovation™

ZENITE® 6130L

Liquid Crystal Polymer

Zenite® 6130L is a lubricated 30% glass reinforced LCP resin. It is well suited for use in automotive, electrical/electronic, telecommunications, and aerospace industries.

Product information

Resin Identification	LCP-GF30		ISO 1043
Part Marking Code	>LCP-GF30<		ISO 11469

Rheological properties

Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.89E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	18900	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8	%	ISO 527-1/-2
Flexural modulus	1.74E6	psi	ISO 178
Charpy impact strength, 23°C	16.6	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	11.9	ftlb/in²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	635	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	509	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.02	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.389	E-4/°F	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	0.0591	in	IEC 60695-11-10
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.0150	in	IEC 60695-11-10
UL recognition	yes		UL 94

Electrical properties

Relative permittivity, 1MHz	4		IEC 62631-2-1
Relative permittivity, 1GHz	4.2		IEC 61189-2-721
Dissipation factor, 1MHz	310	E-4	IEC 62631-2-1
Dissipation factor, 2GHz	50	E-4	IEC 61189-2-721
Volume resistivity	1E14	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Electric strength	914	kV/in	IEC 60243-1
Comparative tracking index	175		IEC 60112

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Physical/Other properties

Density	0.0585	lb/in³	ISO 1183
Bulk density	0.0271	lb/in³	ISO 60

Injection

Drying Recommended	yes	
Drying Temperature	302	°F
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Melt Temperature Optimum	671	°F
Min. melt temperature	662	°F
Max. melt temperature	680	°F
Max. screw tangential speed	0.2 - 0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Back pressure	435	psi
Ejection temperature	554	°F

Automotive

OEM	ADDITIONAL INFORMATION
General Motors	Special Parts Approval, See Your CE Account Representative for Further Details.

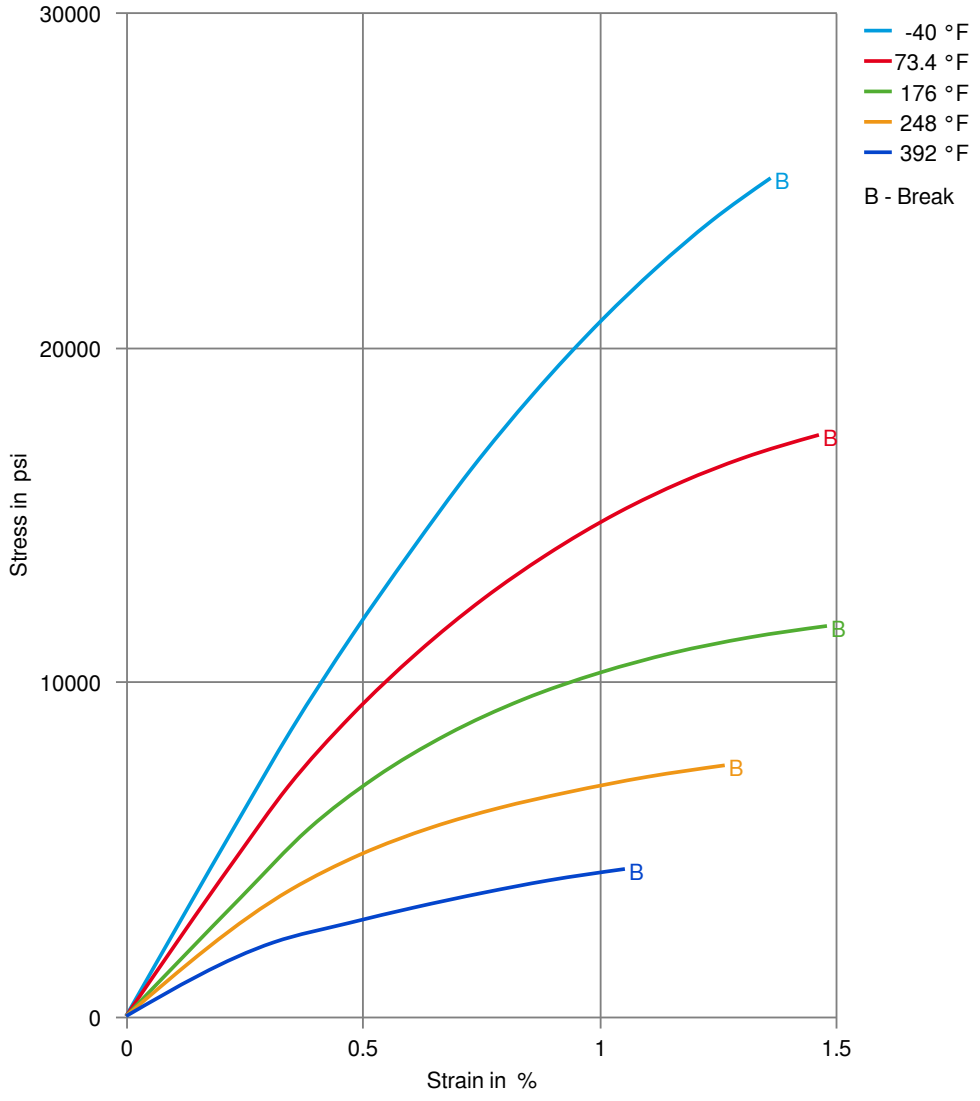
Characteristics

Processing	Injection Molding
Special characteristics	Flame retardant, Heat stabilized or stable to heat, High Flow, Lead-free soldering resistant

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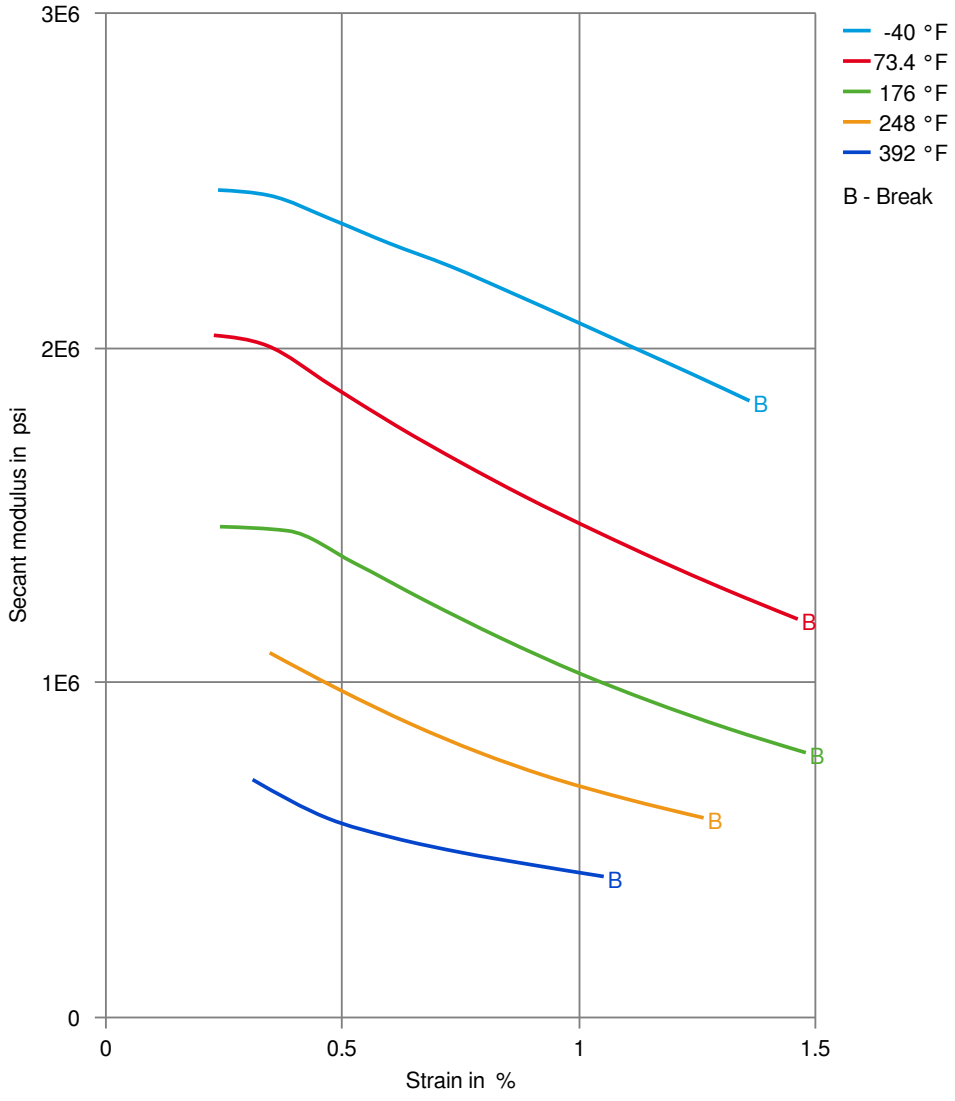
Stress-strain



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Secant modulus-strain



Revised: 2025-08-08 Source: Celanese Materials Database

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