Celanese
The chemistry inside innovation™

ZENITE® 5244LNV

Liquid Crystal Polymer

Zenite 5244LNV is a 40% glass/mineral reinforced LCP resin with improved toughness.

Product information

Resin Identification	LCP-(GF+MD)40		ISO 1043
Part Marking Code	>LCP-(GF+MD)40<		ISO 11469

Rheological properties

Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2.03E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	19000	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.7	%	ISO 527-1/-2
Flexural modulus	1.9E6	psi	ISO 178
Flexural strength	28700	psi	ISO 178
Charpy impact strength, 23°C	12.8	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	7.9	ftlb/in²	ISO 179/1eA
Izod impact strength, 23°C	13.3	ftlb/in²	ISO 180/1U

Thermal properties

Melting temperature, 10°C/min	604	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	545	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.03	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.267	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	0.0315	in	IEC 60695-11-10
UL recognition	yes		UL 94

Physical/Other properties

Density	0.0617	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	302	°F
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Melt Temperature Optimum	635	°F
Min. melt temperature	617	°F
Max. melt temperature	662	°F

Revised: 2026-04-09 Source: Celanese Materials Database

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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	545	°F

Characteristics

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

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