ZENITE® 7244

Liquid Crystal Polymer

Zenite' 7244 is a 40% glass mineral reinforced liquid crystal polymer resin with a high heat deflection temperature of 295C, high flow and good flatness.

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	0.5	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2.03E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	16700	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.4	%	ISO 527-1/-2
Flexural modulus	1.64E6	psi	ISO 178
Flexural strength	26100	psi	ISO 178
Charpy notched impact strength, 23°C	4.28	ftlb/in²	ISO 179/1eA

Thermal properties

Temperature of deflection under load, 1.8 MPa	563	°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	0.228	E-4/°F	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.0138	in	IEC 60695-11-10
UL recognition	yes		UL 94

Electrical properties

Comparative tracking index	200	IEC 60112

Physical/Other properties

Density	0.0625	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	689	°F
Min. melt temperature	680	°F
Max. melt temperature	698	°F
Max. screw tangential speed	0.2 - 0.3	m/s

Revised: 2025-03-20 Source: Celanese Materials Database

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Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Back pressure	435	psi
Ejection temperature	608	°F

Characteristics

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

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