ZENITE® 16236N

Liquid Crystal Polymer

Zenite 16236N is a high flow, low warpage grade for connector applications

Product information

Resin Identification	LCP-(GF+MD)33		ISO 1043
Part Marking Code	>LCP-(GF+MD)33<		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	1.64E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	17400	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7	%	ISO 527-1/-2
Flexural modulus	1.86E6	psi	ISO 178
Flexural strength	24700	psi	ISO 178
Charpy notched impact strength, 23°C	5.61	ftlb/in²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	631	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	496	°F	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.0079	in	IEC 60695-11-10
UL recognition	yes		UL 94

Electrical properties

Relative permittivity, 1GHz	3.84		IEC 61189-2-721
Dissipation factor, 1GHz	43	E-4	IEC 61189-2-721
Comparative tracking index, 23°C	3	PLC	UL 746A
High Amperage Arc Ignition Category, 1.5 mm	PLC 0	class	UL 746A

Physical/Other properties

Density	0.0585	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	302	°F
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Min. melt temperature	635	°F
Max. melt temperature	680	°F
Max. screw tangential speed	0.2 - 0.3	m/s
Mold Temperature Optimum	212	°F

Revised: 2026-01-14 Source: Celanese Materials Database

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Min. mold temperature	176	°F
Max. mold temperature	248	°F

Characteristics

Processing	Injection Molding
Special characteristics	Flame retardant, Heat stabilized or stable to heat, High Flow, Low Warpage

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