ZENITE® 350 LDS

Liquid Crystal Polymer

This LCP is designed for Laser Direct Structuring, low dielectric constant, and low dissipation factor

Product information

Resin Identification	LCP-GF15		ISO 1043
Part Marking Code	>LCP-GF15<		ISO 11469

Rheological properties

Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.6E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	19400	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.1	%	ISO 527-1/-2
Flexural modulus	1.45E6	psi	ISO 178
Flexural strength	22900	psi	ISO 178
Charpy impact strength, 23°C	24.3	ftlb/in²	ISO 179/1eU

Thermal properties

Temperature of deflection under load, 1.8 MPa	464	°F	ISO 75-1/-2

Flammability

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

Electrical properties

Relative permittivity, 1GHz	3.7		IEC 61189-2-721
Dissipation factor, 2GHz	60	E-4	IEC 61189-2-721

Injection

Drying Recommended	yes	
Drying Temperature	302	°F
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Melt Temperature Optimum	644	°F
Min. melt temperature	635	°F
Max. melt temperature	653	°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

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

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Characteristics

Processing	Injection Molding
Special characteristics	Flame retardant, Platable, High impact or impact modified, Heat stabilized or stable to heat, Specialty appearance, High Flow, Improved weld line, Laser Direct Structurable, Lead-free soldering resistant

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

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