Celanese
The chemistry inside innovation™

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

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

Typical mechanical properties

Tensile modulus	11000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	134	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.1	%	ISO 527-1/-2
Flexural modulus	10000	MPa	ISO 178
Flexural strength	160	MPa	ISO 178
Charpy impact strength, 23 °C	51	kJ/m²	ISO 179/1eU
Poisson's ratio	0.34[C]		

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	240	°C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	yes		UL 94

Electrical properties

Relative permittivity, 1GHz	3.7		IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	60	E-4	IEC 61189-2-721

Injection

Drying Recommended	yes	
Drying Temperature	150	°C
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Melt Temperature Optimum	340	°C
Min. melt temperature	335	°C
Max. melt temperature	345	°C
Screw tangential speed	0.2 - 0.3	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	80	°C
Max. mould temperature	120	°C

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Characteristics

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