Celanese
The chemistry inside innovation™

ZENITE® 5130L

Liquid Crystal Polymer

Zenite 5130L is a 30% glass-reinforced LCP resin with improved toughness

Product information

Resin Identification	LCP-GF30		ISO 1043
Part Marking Code	>LCP-GF30<		ISO 11469

Rheological properties

Moulding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.7	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	10000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	145	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5	%	ISO 527-1/-2
Flexural modulus	11000	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Poisson's ratio	0.34[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10 °C/min	320	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	275	°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, 1MHz	3.3		IEC 62631-2-1
Dissipation factor, 1MHz	80	E-4	IEC 62631-2-1

Physical/Other properties

Density	1630	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	150	°C
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Melt Temperature Optimum	335	°C
Min. melt temperature	325	°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

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Max. mould temperature	120	°C
Back pressure	3	MPa

Characteristics

Processing	Injection Moulding
Special characteristics	Flame retardant, High impact or impact modified, Heat stabilised or stable to heat, High Flow, Lead-free soldering resistant