Celanese
The chemistry inside innovation™

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

Typical mechanical properties

Tensile modulus	11300	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	120	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7	%	ISO 527-1/-2
Flexural modulus	12800	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Charpy notched impact strength, 23 °C	11.8	kJ/m²	ISO 179/1eA
Poisson's ratio	0.33[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10 °C/min	333	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	258	°C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.2	mm	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	1620	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	150	°C
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Min. melt temperature	335	°C
Max. melt temperature	360	°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
Delivery form	Pellets
Special characteristics	Flame retardant, Heat stabilised or stable to heat, High Flow, Low Warpage