

ZENITE® 16236N

Liquid Crystal Polymer

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

Product information

Resin Identification	LCP-(GF+MD)3 3	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/m ²	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/m ³	ISO 1183
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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