Celanese
The chemistry inside innovation™

ZENITE® 17311 EFT

Liquid Crystal Polymer

ZENITE® 17311 EFT is a 35% glass and mineral reinforced grade. This grade offers excellent flowability, low warpage, excellent surface appearance, and excellent dimensional stability. Application for this grade is fine pitch connector with thin wall.

Product information

Resin Identification	LCP-(GF+MD)36		ISO 1043
Part Marking Code	>LCP-(GF+MD)36<		ISO 11469

Rheological properties

Moulding shrinkage, parallel	0	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	11000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	110	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2	%	ISO 527-1/-2
Flexural modulus	11000	MPa	ISO 178
Flexural strength	160	MPa	ISO 178
Flexural strain at failure	2.4	%	ISO 178
Charpy notched impact strength, 23°C	5	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	346	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	298	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	7	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	67	E-6/K	ISO 11359-1/-2

Physical/Other properties

Density	1660	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	365	°C
Min. melt temperature	360	°C
Max. melt temperature	370	°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
Back pressure	3	MPa

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Ejection temperature	260 °C

Characteristics

Processing	Injection Moulding
Special characteristics	Flame retardant, Heat stabilised or stable to heat, Specialty appearance, High Flow, Low Warpage, Lead-free soldering resistant