

# 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)3 6	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/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.34 <sup>[C]</sup>	

[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/m <sup>3</sup>	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 %
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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Liquid Crystal Polymer

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