

# ZENITE® 6244L

## Liquid Crystal Polymer

Zenite 6244L is a lubricated, 40% glass fiber and mineral reinforced liquid crystal polymer resin. It is well suited for use in the automotive, electrical/electronic, telecommunications, and aerospace industries.

### Product information

Resin Identification	LCP-(GF+MD)4 0	ISO 1043
Part Marking Code	>LCP-(GF+MD)40<	ISO 11469

### Rheological properties

Moulding shrinkage, parallel	0.1 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.4 %	ISO 294-4, 2577

### Typical mechanical properties

Tensile modulus	13100 MPa	ISO 527-1/2
Tensile stress at break, 5mm/min	112 MPa	ISO 527-1/2
Tensile strain at break, 5mm/min	1.5 %	ISO 527-1/2
Flexural modulus	13200 MPa	ISO 178
Flexural strength	160 MPa	ISO 178
Izod notched impact strength, 23°C	7 kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C	5.0 kJ/m²	ISO 180/1A
Izod impact strength, 23°C	20 kJ/m²	ISO 180/1U
Izod impact strength, -30°C	15 kJ/m²	ISO 180/1U
Poisson's ratio	0.33 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Temperature of deflection under load, 1.8 MPa	269 °C	ISO 75-1-2
Coefficient of linear thermal expansion (CLTE), parallel	6 E-6/K	ISO 11359-1-2
Coefficient of linear thermal expansion (CLTE), normal	50 E-6/K	ISO 11359-1-2

### Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	IEC 60695-11-10
Thickness tested	1.5 mm	IEC 60695-11-10
UL recognition	yes	UL 94

### Electrical properties

Relative permittivity, 100Hz	4.4	IEC 62631-2-1
Relative permittivity, 1MHz	3.6	IEC 62631-2-1
Dissipation factor, 100Hz	130 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	230 E-4	IEC 62631-2-1
Volume resistivity	1E14 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15 Ohm	IEC 62631-3-2
Electric strength	34 kV/mm	IEC 60243-1

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## Physical/Other properties

Water absorption, 2mm	0.02 %	Sim. to ISO 62
Density	1730 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	355 °C
Min. melt temperature	350 °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

## Characteristics

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