Celanese
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ZENITE® 7244

Liquid Crystal Polymer

Zenite' 7244 is a 40% glass mineral reinforced liquid crystal polymer resin with a high heat deflection temperature of 295C, high flow and good flatness.

Product information

Resin Identification	LCP-(GF+MD)40	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	0.5	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	14000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	115	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.4	%	ISO 527-1/-2
Flexural modulus	11300	MPa	ISO 178
Flexural strength	180	MPa	ISO 178
Charpy notched impact strength, 23°C	9	kJ/m²	ISO 179/1eA
Poisson's ratio	0.33[C]		

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	295	°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	41	E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.35	mm	IEC 60695-11-10
UL recognition	yes		UL 94

Electrical properties

Comparative tracking index	200	IEC 60112

Physical/Other properties

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	365	°C
Min. melt temperature	360	°C

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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
Ejection temperature	320	°C

Characteristics

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