ZENITE® 5245L

Liquid Crystal Polymer

Zenite® 5245L is a 45% reinforced, high flow and low warpage LCP for injection molding

Product information

Resin Identification	LCP-(GF+MD)45	ISO 1043
Part Marking Code	>LCP-(GF+MD)45<	ISO 11469

Typical mechanical properties

Tensile modulus	1.6E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	16500	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.6	%	ISO 527-1/-2
Flexural modulus	1.75E6	psi	ISO 178
Flexural strength	23600	psi	ISO 178

Thermal properties

Temperature of deflection under load, 1.8 MPa	515	°F	ISO 75-1/-2

Electrical properties

Relative permittivity, 2GHz	4.39		IEC 61189-2-721
Dissipation factor, 2GHz	54	E-4	IEC 61189-2-721

Injection

Drying Recommended	yes	
Drying Temperature	302	°F
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Min. melt temperature	617	°F
Max. melt temperature	707	°F
Min. mold temperature	122	°F
Max. mold temperature	248	°F

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat, High Flow, Low Warpage

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