

Product Texts

Zenite® ZE55201 is a 50% mineral/glass fiber reinforced liquid crystal polymer for injection molding. and It is specifically suitable for applications requiring ultra flatness.

Flammability @1.6mm nom. V-0
thickn.

Flammability at thickness h (0.8 V-0
mm)

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UL recognition (h)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	1620	kg/m ³	-
^[C] Thermal conductivity of melt	0.4	W/(m K)	-
^[C] Spec. heat capacity of melt	1500	J/(kg K)	-
^[C] Ejection temperature	270	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	15800	MPa	ISO 527
^[C] Stress at break	88	MPa	ISO 527
^[C] Strain at break	1.4	%	ISO 527
^[C] Charpy notched impact strength, +23°C	3.6	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	335	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	290	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	300	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	15	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	27	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
^[C] Oxygen index	41	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	4	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	310	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	310	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	37	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1850	kg/m ³	ISO 1183

[C]: CAMPUS