

**Product Texts**

Zenite® 5145L is a 45% glass fiber reinforced and toughened liquid crystal polymer for injection molding. It has improved toughness.

Flammability @1.6mm nom. thickn. V-0

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Flammability at thickness h (0.8 mm) V-0

UL recognition (h)

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1480	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.35	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	1500	J/(kg K)	-
<sup>[C]</sup> Ejection temperature	265	°C	-

[C]: CAMPUS

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	15000	MPa	ISO 527
<sup>[C]</sup> Stress at break	115	MPa	ISO 527
<sup>[C]</sup> Strain at break	3.1	%	ISO 527

[C]: CAMPUS

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	319	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	290	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	7	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<sup>[C]</sup> Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
<sup>[C]</sup> Oxygen index	33	%	ISO 4589-1/-2

[C]: CAMPUS

**Electrical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 1MHz	3.9	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	180	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	1E15	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	45	kV/mm	IEC 60243-1

[C]: CAMPUS

**Other properties**

	Value	Unit	Test Standard
<sup>[C]</sup> Density	1750	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America,  
Near East/Africa