ZENITE® 6140L

LCP-GF40 Celanese

Product Texts

Zenite® 6140L is a 40% glass fiber reinforced and lubricated liquid crystal polymer for injection molding. It has excellent impact resistance and excellent heat deflection temperature.

Flammability @1.6mm nom. thickn.	V-0	-	
Flammability at thickness h (0.4 mm)	V-0	UL recognition (h)	

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**17000**	MPa	ISO 527
[C] Stress at break	**130**	MPa	ISO 527
[C] Strain at break	**1.1**	%	ISO 527
[C] Charpy impact strength, +23°C	**23**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**20**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**15**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**15**	kJ/m²	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	**280**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**4**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**64**	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	**0.4**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
[C] Electric strength	**45**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1710**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant, High impact or impact modified, Heat stabilized or stable to heat

Additives
Lubricants

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