ZENITE® 7130

LCP-GF30 Celanese

Product Texts

Zenite® 7130 is a 30% glass fiber reinforced liquid crystal polymer for injection molding. It has excellent impact resistance and excellent heat deflection temperature.

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**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.6**	%	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	**150**	MPa	ISO 527
[C] Strain at break	**1.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**30**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**22**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**20**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**20**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**352**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**120**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**310**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**3**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**62**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-
Yellow Card available	**yes**	-	-
[C] Oxygen index	**45**	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**4.1**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.7**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**140**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**300**	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	**45**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1620**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Special Characteristics
Flame retardant, High impact or impact modified

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