

ZENITE® 7130 | LCP | Glass Reinforced

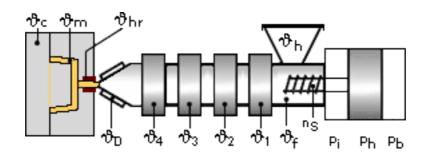
Description

Physical properties	Value	Unit	Test Standard	
Density	1620	kg/m³	ISO 1183	
Mold shrinkage - parallel	0.01	%	ISO 294-4	
Mold shrinkage - normal	0.6	%	ISO 294-4	
Mechanical properties	Value	Unit	Test Standard	
Tensile modulus (1mm/min)	17000	MPa	ISO 527-2/1A	
Tensile stress at break (5mm/min)	150	MPa	ISO 527-2/1A	
Tensile strain at break (5mm/min)	1.5	%	ISO 527-2/1A	
Flexural modulus (23°C)	13000	MPa	ISO 178	
Flexural strength (23°C)	210	MPa	ISO 178	
Charpy impact strength @ 23°C	30.0	kJ/m²	ISO 179/1eU	
Charpy impact strength @ -30°C	22.0	kJ/m²	ISO 179/1eU	
Charpy notched impact strength @ 23°C	20.0	kJ/m²	ISO 179/1eA	
Charpy notched impact strength @ -30°C	20.0	kJ/m²	ISO 179/1eA	
Unnotched impact str (Izod) @ 23°C	30	kJ/m²	ISO 180/1U	
Notched impact strength (Izod) @ 23°C	18.0	kJ/m²	ISO 180/1A	
Thermal properties	Value	Unit	Test Standard	
Melting temperature (10°C/min)	352	°C	ISO 11357-1,-2,-3	
Glass transition temperature (10°C/min)	120	°C	ISO 11357-1,-2,-3	
DTUL @ 1.8 MPa	310	°C	ISO 75-1/-2	
Coeff.of linear therm. expansion (parallel)	0.03	E-4/°C	ISO 11359-2	
Coeff.of linear therm. expansion (normal)	0.62	E-4/°C	ISO 11359-2	
Limiting oxygen index (LOI)	45.0	%	ISO 4589	
Flammability at thickness h	V-0	class	UL94	
thickness tested (h)	0.4	mm	UL94	
UL recognition (h)	UL	-	UL94	
Electrical properties	Value	Unit	Test Standard	
Relative permittivity - 100 Hz	4.1	-	IEC 60250	
Relative permittivity - 1 MHz	3.7	-	IEC 60250	
	3.1		.20 00200	
Dissipation factor - 100 Hz	140	E-4	IEC 60250	
Dissipation factor - 100 Hz Dissipation factor - 1 MHz		E-4 E-4		
	140		IEC 60250	
Dissipation factor - 1 MHz	140 300	E-4	IEC 60250 IEC 60250	
Dissipation factor - 1 MHz Volume resistivity	140 300 >1E13	E-4 Ohm*m	IEC 60250 IEC 60250 IEC 60093	



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Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.01%

Drying time: 3 h

Drying temperature: 150 - - °C

Temperature:

remperature.	^უ Mold	^ð Melt	^ϑ Nozzle	^{స్} Zone4	^ఌ Zone3	^{స్} Zone2	^స ∂Zone1	[∜] Feed	^უ Hopper
min (°C)	80	360	360	360	360	360	355	40	20
max (°C)	120	370	370	370	370	370	365	60	30

Pressure:

	Inj press	Hold press	Back pressure	
min (bar)	500	500	0	
max (bar)	1500	1500	30	

Injection Molding

Melt Temperature Optimum = 365°C

Melt Temperature Range = 360-370°C

Mold Temperature Optimum = 80°C

Mold Temperature Range = 40-150°C

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In data values.

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