ZENITE® 6130L | LCP | Glass Reinforced

Description

Zenite® 6130L is a lubricated 30% glass reinforced LCP resin. It is well suited for use in automotive, electrical/electronic, telecommunications, and aerospace industries.

Physical properties	Value	Unit	Test Standard
Density	**1620**	kg/m³	ISO 1183

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	**13000**	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	**130**	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	**1.8**	%	ISO 527-2/1A
Flexural modulus (23°C)	**12000**	MPa	ISO 178
Charpy impact strength @ 23°C	**35.0**	kJ/m²	ISO 179/1eU
Charpy notched impact strength @ 23°C	**25.0**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	**335**	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	**265**	°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)	**0.7**	E-4/°C	ISO 11359-2
Flammability @1.6mm nom. thickn.	**V-0**	class	UL94
thickness tested (1.6)	**1.5**	mm	UL94
UL recognition (1.6)	**UL**	-	UL94
Flammability at thickness h	**V-0**	class	UL94
thickness tested (h)	**0.38**	mm	UL94
UL recognition (h)	**UL**	-	UL94

Electrical properties	Value	Unit	Test Standard
Relative permittivity - 1 MHz	**4**	-	IEC 60250
Relative permittivity at 2.05 GHz	**4.16**	-	IPC TM-650 2.5.5.13
Dissipation factor - 1 MHz	**310**	E-4	IEC 60250
Dissipation factor at 2.05 GHz	**50**	E-4	IPC TM-650 2.5.5.13
Volume resistivity	**>1E14**	Ohm*m	IEC 60093
Surface resistivity	**>1E16**	Ohm	IEC 60093
Electric strength	**36**	kV/mm	IEC 60243-1
Comparative tracking index CTI	**200**	-	IEC 60112

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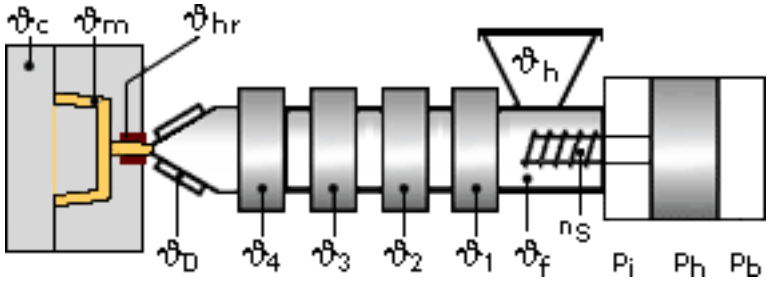
Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.01%

Drying time: 3 h

Drying temperature: 150 - 150 °C

Temperature:

	ϑMold	ϑMelt	ϑNozzle	ϑZone4	ϑZone3	ϑZone2	ϑZone1	ϑFeed	ϑHopper
min (°C)	80	350	350	350	350	350	335	40	20
max (°C)	120	360	360	360	360	360	345	60	30

Pressure:

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

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Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.
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