

ZENITE® 5130L | LCP | Glass Reinforced

Description

Zenite 5130L is a 30% glass-reinforced LCP resin with improved toughness

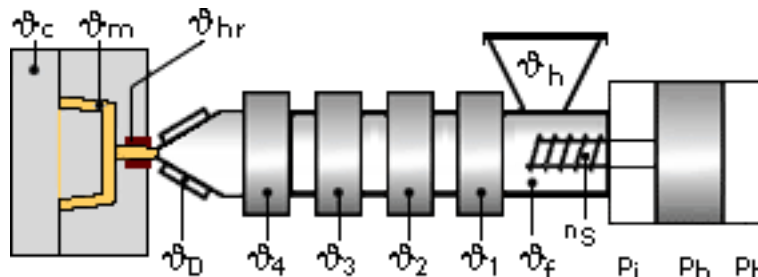
Physical properties	Value	Unit	Test Standard
Density	1630	kg/m ³	ISO 1183
Mold shrinkage - parallel	0.05	%	ISO 294-4
Mold shrinkage - normal	0.73	%	ISO 294-4

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	10000	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	145	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	3.5	%	ISO 527-2/1A
Flexural modulus (23°C)	11000	MPa	ISO 178
Flexural strength (23°C)	170	MPa	ISO 178

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	320	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	275	°C	ISO 75-1/-2
Flammability at thickness h	V-0	class	UL94
thickness tested (h)	0.8	mm	UL94
UL recognition (h)	UL	-	UL94

Electrical properties	Value	Unit	Test Standard
Relative permittivity - 1 MHz	3.3	-	IEC 60250
Relative permittivity at 2.05 GHz	4.07	-	IPC TM-650 2.5.5.13
Dissipation factor - 1 MHz	80	E-4	IEC 60250
Dissipation factor at 2.05 GHz	40	E-4	IPC TM-650 2.5.5.13

Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.01%

Drying time: 3 h

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Drying temperature: 150 - 150 °C

Temperature:

	° Mold	° Melt	° Nozzle	° Zone4	° Zone3	° Zone2	° Zone1	° Feed	° Hopper
min (°C)	80	325	335	335	335	335	320	40	20
max (°C)	120	345	345	345	345	345	330	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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