

ZENITE® 7755 | LCP | Mineral / Glass Reinforced

Description

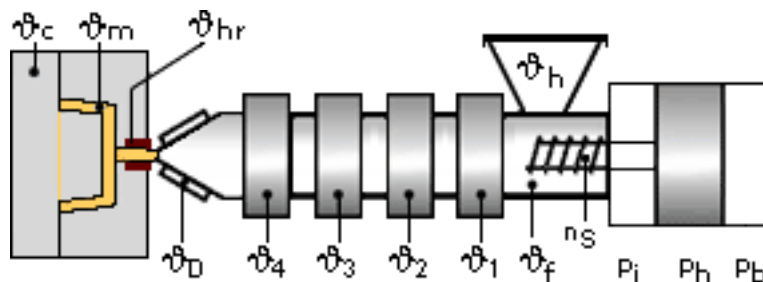
Zenite 7755 is a 55% glass/mineral-reinforced liquid crystal polymer resin for injection molding. It has good impact resistance, excellent temperature resistance, and is suitable for applications in diverse industries.

Physical properties	Value	Unit	Test Standard
Density	1890	kg/m ³	ISO 1183
Mold shrinkage - parallel	0.0	%	ISO 294-4
Mold shrinkage - normal	0.1	%	ISO 294-4
Humidity absorption (23°C/50%RH)	1.1	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	17600	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	100	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	1	%	ISO 527-2/1A
Flexural modulus (23°C)	14000	MPa	ISO 178
Flexural strength (23°C)	185	MPa	ISO 178
Charpy notched impact strength @ 23°C	6.0	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL @ 1.8 MPa	310	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	0.09	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	0.39	E-4/°C	ISO 11359-2
Flammability at thickness h	V-0	class	UL94
thickness tested (h)	1.5	mm	UL94
UL recognition (h)	UL	-	UL94

Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.01%

Drying time: 3 h

Drying temperature: 150 - 150 °C

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Temperature:

	° Mold	° Melt	° Nozzle	° Zone4	° Zone3	° Zone2	° Zone1	° Feed	° Hopper
min (°C)	80	365	360	360	360	360	355	40	20
max (°C)	120	375	370	370	370	370	365	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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