

ZENITE® 7244 | LCP | Mineral / Glass Reinforced

Description

Zenite 7244 is a 40% glass/mineral reinforced liquid crystal polymer resin with a high heat deflection temperature of 295C, high flow and good flatness."

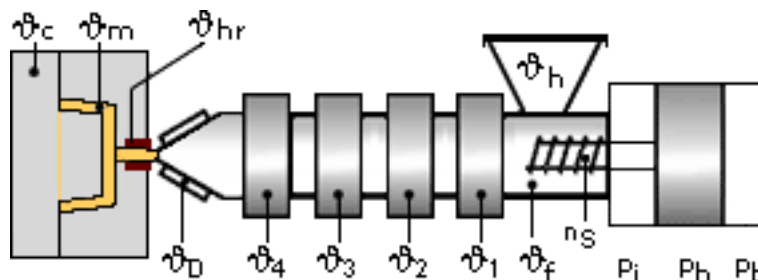
Physical properties	Value	Unit	Test Standard
Density	1730	kg/m ³	ISO 1183
Mold shrinkage - parallel	0.1	%	ISO 294-4
Mold shrinkage - normal	0.5	%	ISO 294-4

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	14000	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	115	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	1.4	%	ISO 527-2/1A
Flexural modulus (23°C)	11300	MPa	ISO 178
Flexural strength (23°C)	180	MPa	ISO 178
Charpy notched impact strength @ 23°C	9.0	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL @ 1.8 MPa	295	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	0.06	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	0.41	E-4/°C	ISO 11359-2
Flammability at thickness h	V-0	class	UL94
thickness tested (h)	0.35	mm	UL94
UL recognition (h)	UL	-	UL94

Electrical properties	Value	Unit	Test Standard
Comparative tracking index CTI	200	-	IEC 60112

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 - - °C

Temperature:

	° Mold	° Melt	° Nozzle	° Zone4	° Zone3	° Zone2	° Zone1	° Feed	° 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

Contact Information

Americas

8040 Dixie Highway, Florence, KY 41042 USA

Product Information Service

t: +1-800-833-4882 t: +1-859-372-3244

Customer Service

t: +1-800-526-4960 t: +1-859-372-3214

e: info-engineeredmaterials-am@celanese.com

Asia

4560 Jinke Road, Zhang Jiang Hi Tech Park

Shanghai 201203 PRC

Customer Service

t: +86 21 3861 9266 f: +86 21 3861 9599

e: info-engineeredmaterials-asia@celanese.com

Europa

Am Unisys-Park 1, 65843 Sulzbach, Germany

Product Information Service

t: +(00)-800-86427-531 t: +49-(0)-69-45009-1011

e: info-engineeredmaterials-eu@celanese.com

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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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