ZENITE® 6330 | LCP | Mineral Reinforced

Description

Zenite® 6330 is a 30% mineral reinforced liquid crystal polymer for injection molding. It has excellent impact resistance, excellent heat deflection temperature and and is well suited for all kinds of demanding applications.

Physical properties	Value	Unit	Test Standard
Density	**1640**	kg/m³	ISO 1183
Mold shrinkage - parallel	**0**	%	ISO 294-4
Mold shrinkage - normal	**0.65**	%	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)	**130**	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	**5**	%	ISO 527-2/1A
Flexural modulus (23°C)	**9500**	MPa	ISO 178
Charpy impact strength @ 23°C	**60.0**	kJ/m²	ISO 179/1eU
Charpy impact strength @ -30°C	**40.0**	kJ/m²	ISO 179/1eU
Charpy notched impact strength @ 23°C	**9.0**	kJ/m²	ISO 179/1eA
Charpy notched impact strength @ -30°C	**8.0**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	**335**	°C	ISO 11357-1,-2,-3
Glass transition temperature (10°C/min)	**120**	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	**245**	°C	ISO 75-1/-2
DTUL @ 0.45 MPa	**275**	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	**0.08**	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	**0.4**	E-4/°C	ISO 11359-2
Limiting oxygen index (LOI)	**47.0**	%	ISO 4589
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)	**0.85**	mm	UL94
UL recognition (h)	**UL**	-	UL94

Electrical properties	Value	Unit	Test Standard
Relative permittivity - 100 Hz	**3.8**	-	IEC 60250
Relative permittivity - 1 MHz	**3.4**	-	IEC 60250
Dissipation factor - 100 Hz	**140**	E-4	IEC 60250
Dissipation factor - 1 MHz	**310**	E-4	IEC 60250
Volume resistivity	**>1E13**	Ohm*m	IEC 60093
Surface resistivity	**>1E15**	Ohm	IEC 60093
Electric strength	**35**	kV/mm	IEC 60243-1
Comparative tracking index CTI	**200**	-	IEC 60112

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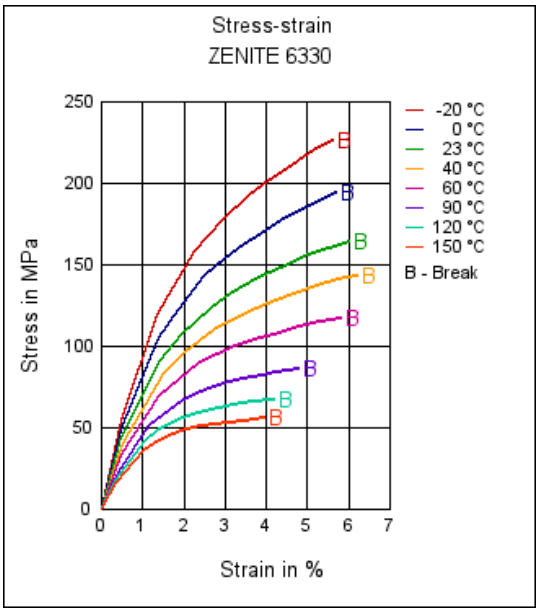
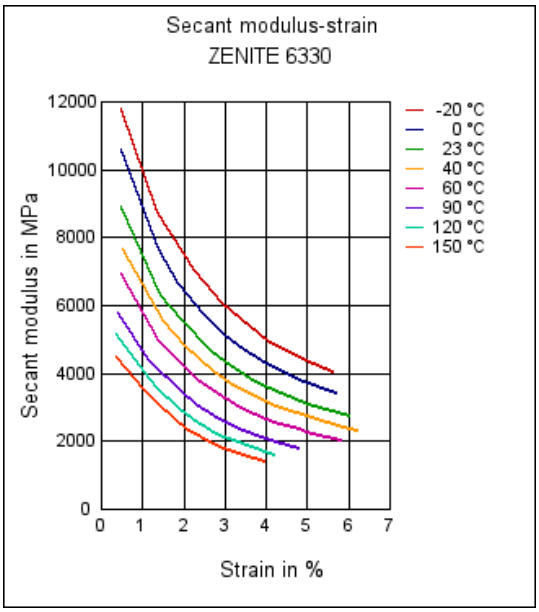
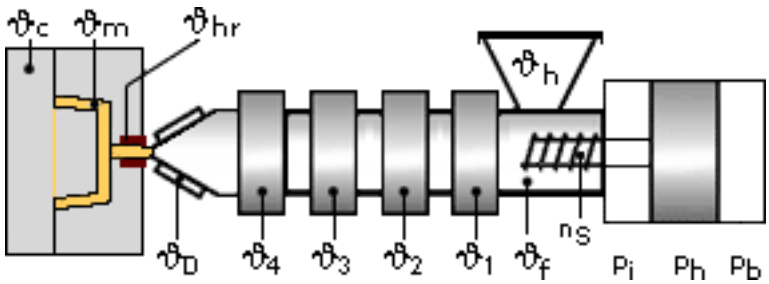
Stress-strain



Secant modulus-strain



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:

	Mold	Melt
min (°C)	40	350
max (°C)	150	360

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Injection Molding

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Melt Temperature Optimum = 355°C
Melt Temperature Range = 350-360°C
Mold Temperature Optimum = 90°C
Mold Temperature Range = 30-160°C
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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.co

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