

ZENITE® 6130L

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Typical mechanical properties

Tensile Modulus	13000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	130 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.8 %	ISO 527-1/-2
Flexural Modulus	12000 MPa	ISO 178
Charpy impact strength, 23°C	35 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	25 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	335 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	265 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	3 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	UL 94
Thickness tested	1.5 mm	UL 94
Burning Behav. at thickness h	V-0 class	UL 94
Thickness tested	0.38 mm	UL 94
UL recognition	yes	UL 94

Electrical properties

Relative permittivity, 1MHz	4	IEC 62631-2-1
Relative permittivity, 2GHz	4.2 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	310 E-4	IEC 62631-2-1
Volume resistivity	>1E14 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E16 Ohm	IEC 62631-3-2
Electric strength	36 kV/mm	IEC 60243-1
Comparative tracking index	PLC 3 PLC	UL 746A
Dissipation factor, printed circuits and boards, 2.5 GHz	50 E-4	IEC 61189-2-721

Other properties

Density	1620 kg/m ³	ISO 1183
Bulk density	750 kg/m ³	ISO 60



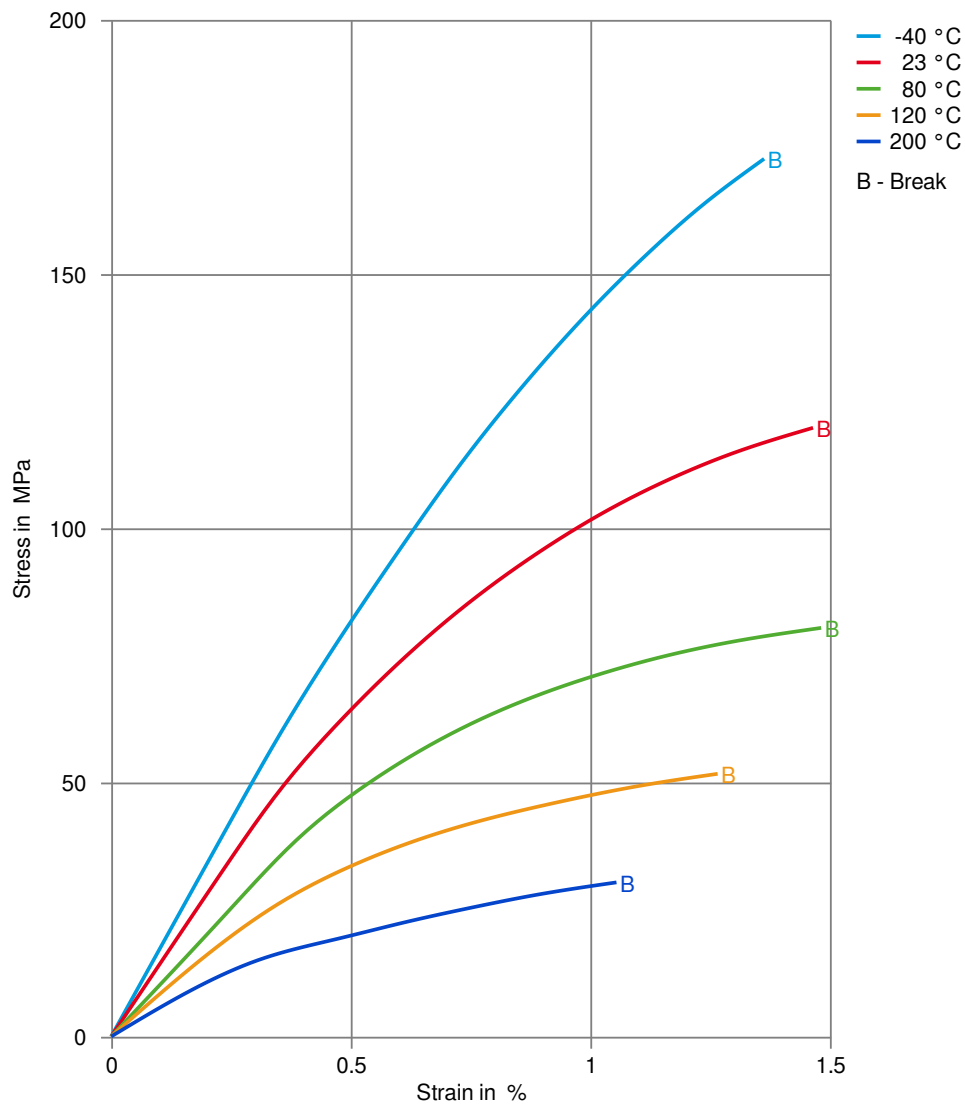
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Injection

Drying Temperature	150 °C
Drying Time, Dehumidified Dryer	3 h
Processing Moisture Content	0.01 %
Melt Temperature Optimum	355 °C
Max. mould temperature	80 - 120 °C
Back pressure	3 MPa

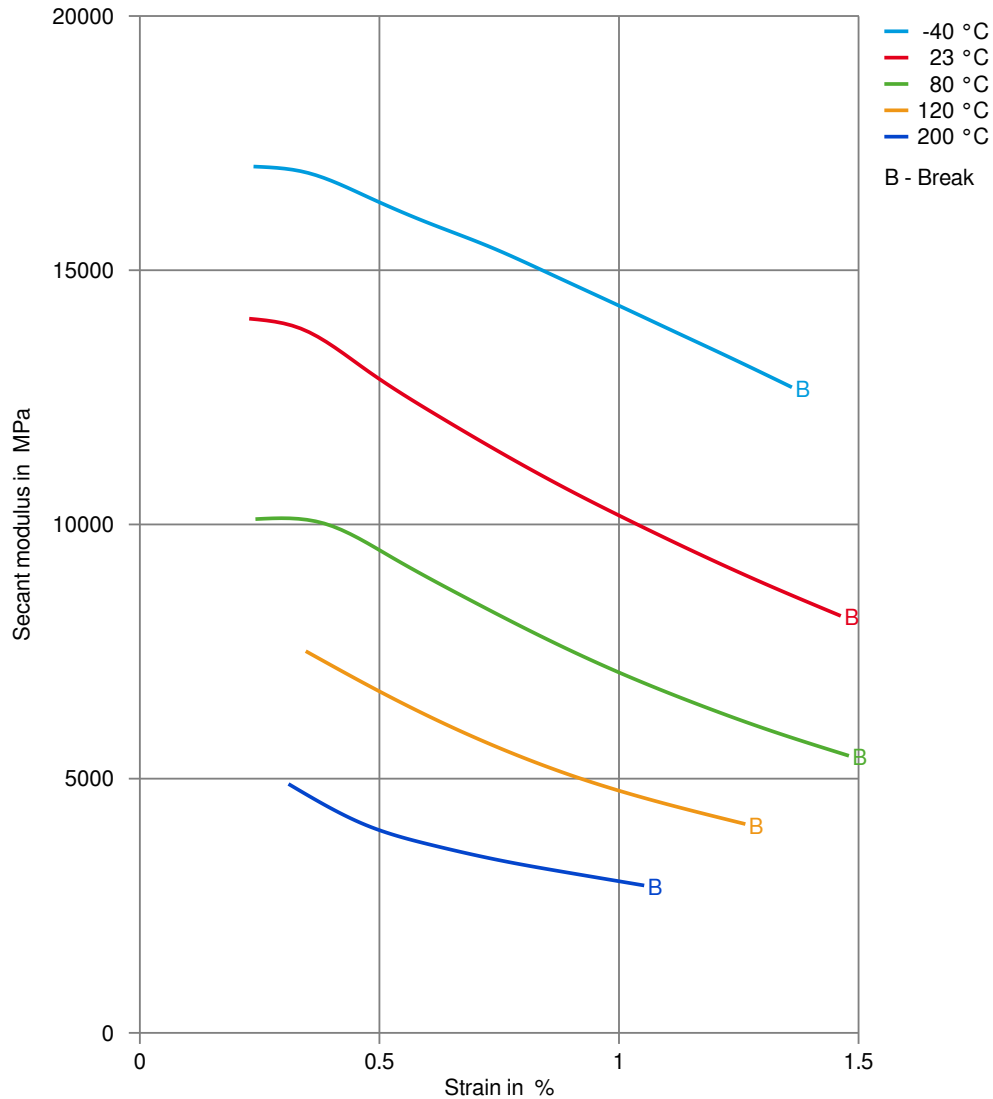
Internal

Stress-strain



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Secant modulus-strain



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True stress-strain

