Celanese
The chemistry inside innovation™

VECTRA® E130G

30% glass fiber filled/low injection pressure
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Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant UL-Listing V-0 in natural and black at 0.75mm thickness per UL 94 flame testing. Relative-Temperature-Index (RTI) according to UL 746B: electricals 130 °C, mechanicals 130 °C. UL = Underwriters Laboratories (USA)

Typical mechanical properties

Tensile Modulus	13000	MPa	ISO 527-1/-2
Stress at break, 5mm/min	150	MPa	ISO 527-1/-2
Strain at break, 5mm/min	3	%	ISO 527-1/-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Strength	170	MPa	ISO 178
Charpy notched impact strength, -30 °C	46	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23 °C	30	kJ/m²	ISO 180/1A

Thermal properties

Melting temperature, 10 °C/min	335	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	245	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	273	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	5	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	67	E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	0.75	mm	UL 94

Electrical properties

Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	>1E14	Ohm	IEC 62631-3-2

Other properties

Density	1610	kg/m³	ISO 1183

Injection

Drying Temperature	150 - 170	°C
Drying Time, Dehumidified Dryer	4	h
Processing Moisture Content	0.01	%
Screw tangential speed	0.17 - 0.18	m/s
Max. mould temperature	80 - 120	°C
Injection speed	very fast	

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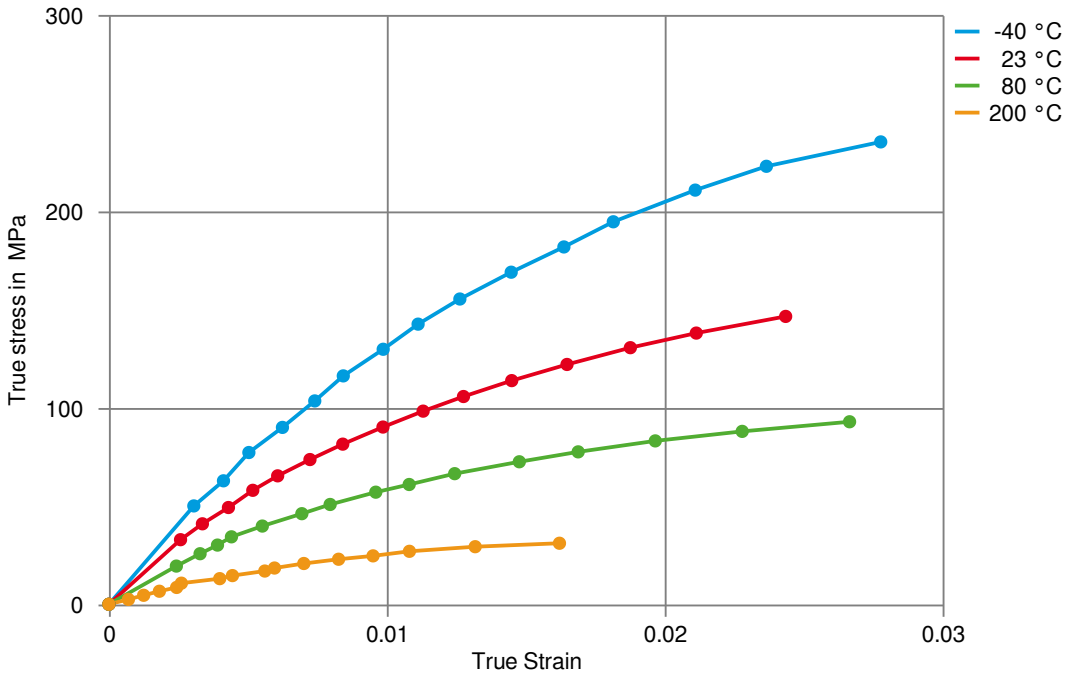
True stress-strain



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Processing Texts

Pre-drying	VECTRA should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be =< - 40° C. The time between drying and processing should be as short as possible.