Celanese
The chemistry inside innovation™

VECTRA® S625

Low friction and wear resistance.
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Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant.

Rheological properties

Moulding shrinkage range, parallel		%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	8300	MPa	ISO 527-1/-2
Stress at break, 50mm/min	121	MPa	ISO 527-1/-2
Strain at break, 50mm/min	3	%	ISO 527-1/-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Strength	152	MPa	ISO 178
Izod notched impact strength, 23°C	4	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	25	kJ/m²	ISO 180/1U

Thermal properties

Melting temperature, 10°C/min	350	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	271	°C	ISO 75-1/-2
Temp. of deflection under load, 8 MPa	129	°C	ISO 75-1/-2
Spec. heat capacity solid	1270	J/(kg K)	Internal

Other properties

Density	1530	kg/m³	ISO 1183

Injection

Drying Temperature	150	°C
Drying Time, Dehumidified Dryer	6	h
Processing Moisture Content	0.01	%
Max. mould temperature	80 - 140	°C
Back pressure	3	MPa
Injection speed	very fast	

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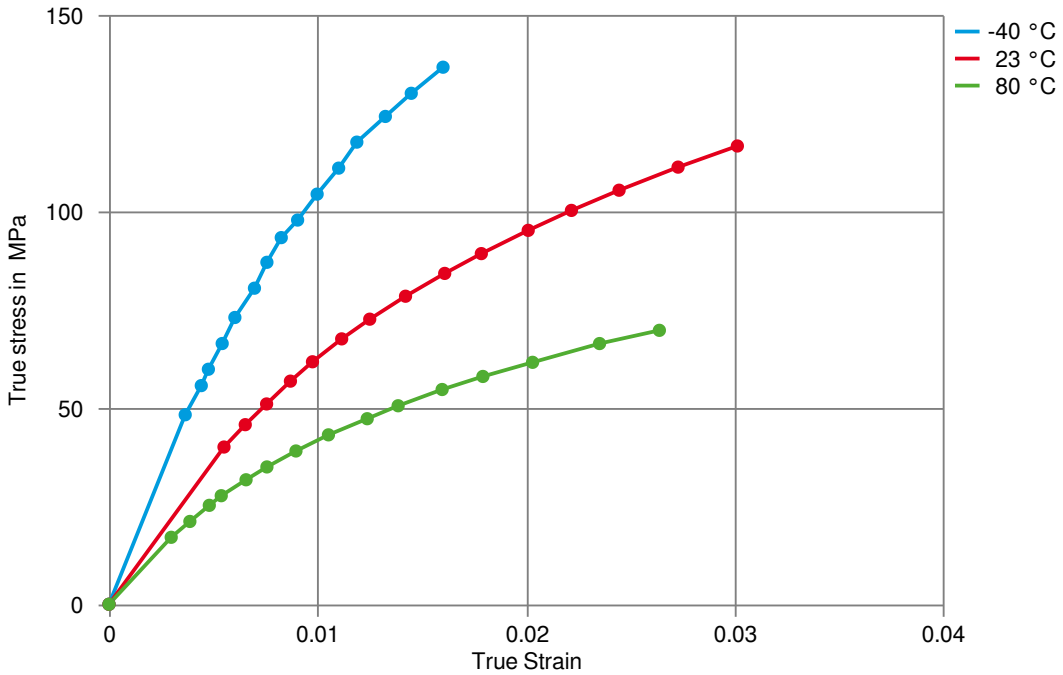
True stress-strain



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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.