Celanese
The chemistry inside innovation™

VECTRA® J540

40% Mineral filled; high heat resistance.
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Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant
FDA compliant

Rheological properties

Moulding shrinkage range, parallel	0.1	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	9000	MPa	ISO 527-1/-2
Stress at break, 5mm/min	100	MPa	ISO 527-1/-2
Strain at break, 5mm/min	3	%	ISO 527-1/-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Strength	120	MPa	ISO 178
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	5	kJ/m²	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	350	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	240	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	283	°C	ISO 75-1/-2

Other properties

Density	1740	kg/m³	ISO 1183

Injection

Drying Temperature	150 - 170	°C	
Drying Time, Dehumidified Dryer	6	h	
Processing Moisture Content	0.01	%	
Melt Temperature Optimum	355	°C	Internal
Screw tangential speed	0.07 - 0.42	m/s	
Max. mould temperature	80 - 140	°C	
Injection speed	very fast		

Characteristics

Additives	Mineral Filler

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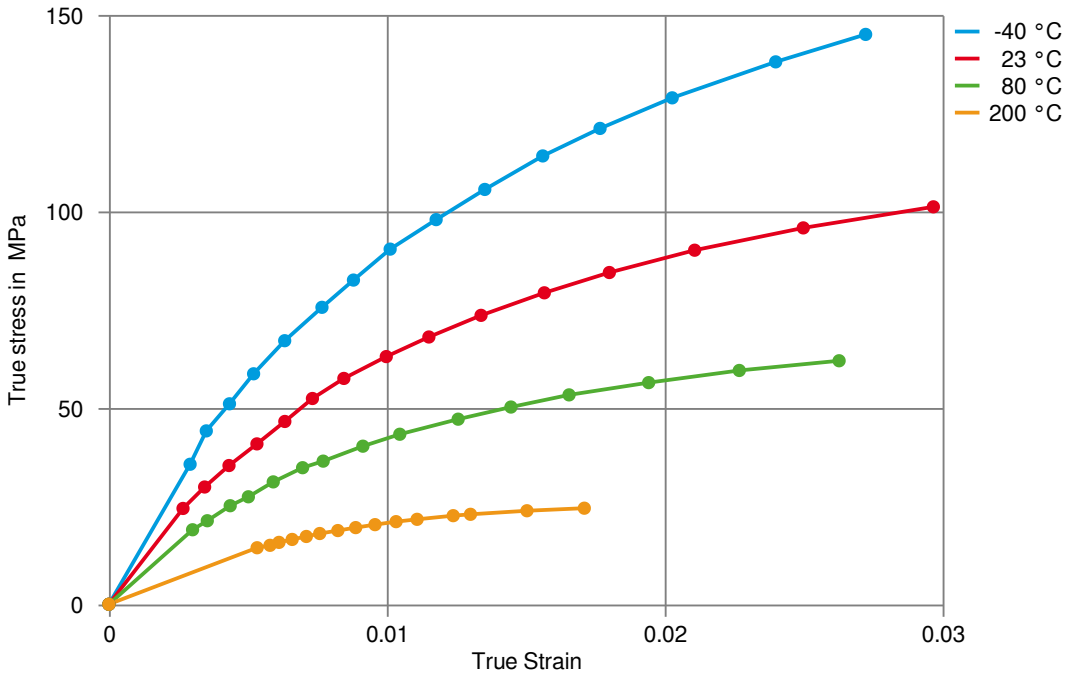
True stress-strain



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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.