

VECTRA® E473i

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Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant FDA compliant 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)

Rheological properties

Moulding shrinkage range, parallel	0.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	11000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	125 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.2 %	ISO 527-1/-2
Flexural Modulus	12000 MPa	ISO 178
Flexural Strength	170 MPa	ISO 178
Compressive stress at 1% strain	59 MPa	ISO 604
Charpy impact strength, 23°C	33 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	13 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	13 kJ/m ²	ISO 180/1A
Izod impact strength, 23°C	30 kJ/m ²	ISO 180/1U
Hardness, Rockwell, M-scale	40	ISO 2039-2

Thermal properties

Melting temperature, 10°C/min	335 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	250 °C	ISO 75-1/-2
Temp. of deflection under load, 8 MPa	159 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	6 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	11 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	UL 94
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Electrical properties

Relative permittivity, 1MHz	4	IEC 62631-2-1
Dissipation factor, 1MHz	340 E-4	IEC 62631-2-1
Volume resistivity	1E14 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15 Ohm	IEC 62631-3-2
Electric strength	49 kV/mm	IEC 60243-1
Comparative tracking index	PLC 3 PLC	UL 746A



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Other properties

Density	1630 kg/m ³	ISO 1183
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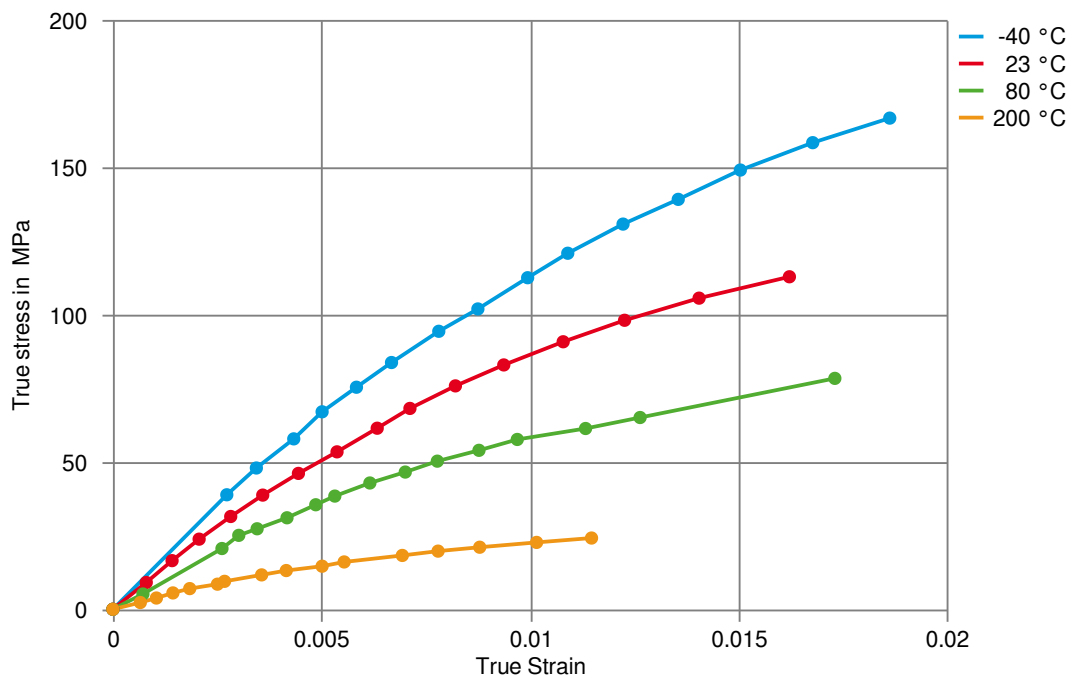
Injection

Drying Temperature	150 °C	
Drying Time, Dehumidified Dryer	6 h	
Processing Moisture Content	0.01 %	
Melt Temperature Optimum	350 °C	Internal
Screw tangential speed	0.13 - 0.79 m/s	
Max. mould temperature	80 - 120 °C	
Injection speed	high	



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True stress-strain



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Other Approvals

Other Approvals

OEM	Specification	Additional Information
VW Group		No spec listed (Natural)

