

VECTRA® C950

Vectra C950 is an unreinforced; inherently flame retardant Vectra grade suitable for extrusion. UL-Listing V-0 in natural at 0.81mm thickness per UL 94 flame testing.

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Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant FDA compliant UL-Listing V-0 in natural at 0.81mm thickness per UL 94 flame testing. Relative-Temperature-Index (RTI) according to UL 746B: electrical 240°C, mechanical 220°C. UL = Underwriters Laboratories (USA)

Typical mechanical properties

Tensile Modulus	8200 MPa	ISO 527-1/-2
Stress at break, 5mm/min	150 MPa	ISO 527-1/-2
Strain at break, 5mm/min	3.7 %	ISO 527-1/-2
Flexural Modulus	7300 MPa	ISO 178
Flexural Strength	145 MPa	ISO 178

Thermal properties

Melting temperature, 10°C/min	320 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	175 °C	ISO 75-1/-2
Temp. of deflection under load, 8 MPa	95 °C	ISO 75-1/-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	0.80 mm	UL 94
UL recognition	yes	UL 94

Other properties

Density	1400 kg/m³	ISO 1183
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Injection

Drying Temperature	150 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Processing Moisture Content	0.01 %
Screw tangential speed	0.17 - 0.18 m/s
Max. mould temperature	80 - 120 °C
Back pressure	3 MPa
Injection speed	very fast

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 $\leq -40^{\circ}\text{C}$. The time between drying and processing should be as short as possible.



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Longer pre-drying times/storage



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For subsequent storage of the material in the dryer until processed the temperature does not need to be lowered for grades A, B, C, D and V (≤ 24 h).

