

Product Texts

Vectra E473i is a low warp LCP with easy flow and high temperature capability. 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)

Flammability @1.6mm nom. thickn. V-0 -

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	11000	MPa	ISO 527
^[C] Stress at break	125	MPa	ISO 527
^[C] Strain at break	2.2	%	ISO 527
^[C] Charpy impact strength, +23°C	33	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	335	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	250	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	159	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	190	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	6	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	11	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	4	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	340	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	49	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1630	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Black, Natural Color

Special Characteristics

Flame retardant

Certifications

Food contact, Food approval FDA 21 CFR

Regional Availability

North America, Asia Pacific

Features

Low Warpage