

Product Texts

Easy flowing grade with very good heat resistance, and mechanical properties. May reduce warpage in some parts compared to E130i. 50% glass reinforced. Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant FDA compliant UL-Listing V-0 in natural and black at 0.43mm thickness per UL 94 flame testing. Relative-Temperature-Index (RTI) according to UL 746B: electricals 240°C, mechanicals 240°C at 0.75mm. UL = Underwriters Laboratories (USA)

Flammability @1.6mm nom. V-0
 thickn. -
 Flammability at thickness h (0.43 V-0
 mm) UL recognition (h)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2	%	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	20000	MPa	ISO 527
^[C] Stress at break	130	MPa	ISO 527
^[C] Strain at break	1	%	ISO 527
^[C] Charpy impact strength, +23°C	19	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10	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	260	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	225	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	200	°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	17	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn. Thickness tested	V-0 1.5	class mm	IEC 60695-11-10 -
^[C] Burning Behav. at thickness h Thickness tested Yellow Card available	V-0 0.4 yes	class mm -	IEC 60695-11-10 - -

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	4.7	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	280	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	28	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.006	%	Sim. to ISO 62
^[C] Density	1810	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Black, Natural Color

Certifications

Food contact, Food approval FDA 21 CFR

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific

Features

Low Warpage