

**Product Texts**

35% GF/Min modified/reinforced, low warp Vectra LCP grade with excellent properties  
 Chemical abbreviation according to ISO 1043-1 : LCP  
 Inherently flame retardant.  
 UL-Listing V-0 at all color at 0.15mm thickness per UL 94 flame testing.  
 Relative-Temperature-Index (RTI) according to UL 746B: electricals 130°C, mechanicals 130°C.  
 UL = Underwriters Laboratories

Flammability at thickness h (0.15 V-0 mm)

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

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>13500</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>130</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>2.5</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>55</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>13</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>335</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>265</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 8.00 MPa	<b>220</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	<b>200</b>	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>7</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>62</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>0.1</b>	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 1MHz	<b>3.8</b>	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	<b>310</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	<b>53</b>	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.015</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.002</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1670</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Delivery form**

Black, Natural Color

**Features**

Low Warpage

**Special Characteristics**

Flame retardant

**Regional Availability**North America, Europe, Asia Pacific, South and Central America,  
Near East/Africa