

## VECTRA® V400P - LCP

### Description

Co-extrudable LCP for Barrier Applications. Vectra V400P Liquid Crystal Polymer is characterized by its excellent barrier properties independent of relative humidity, chemical resistance and contact clarity in thin film applications. This material is not suitable for medical or dental implants. Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant

Physical properties	Value	Unit	Test Standard
Density	1400	kg/m <sup>3</sup>	ISO 1183
Humidity absorption, 23°C/50%RH	0,04	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	14400	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	151	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	1,62	%	ISO 527-2/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	111	°C	ISO 75-1, -2

### Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0,01	%	-
Drying time	8 - 24	h	-
Drying temperature	90	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	185 - 195	°C	-
Zone2 temperature	205 - 215	°C	-
Zone3 temperature	205 - 215	°C	-
Zone4 temperature	205 - 215	°C	-
Nozzle temperature	200 - 210	°C	-
Melt temperature	225 - 235	°C	-

### Characteristics

#### Product Categories

Specialty

#### Regional Availability

North America, Asia Pacific

### Contact Information

#### Americas

8040 Dixie Highway  
 Florence, KY 41042 USA  
 Product Information Service  
 t: +1-800-833-4882  
 t: +1-859-372-3244  
 Customer Service  
 t: +1-800-526-4960  
 t: +1-859-372-3214  
 e: info-engineeredmaterials-am@celanese.com

#### Asia

4560 Jinke Road  
 Zhang Jiang Hi Tech Park  
 Shanghai 201203 PRC  
 Customer Service  
 t: +86 21 3861 9266  
 f: +86 21 3861 9599  
 e: info-engineeredmaterials-  
 asia@celanese.com

#### Europe

Am Unisys-Park 1  
 65843 Sulzbach, Germany  
 Product Information Service  
 t: +49-800-86427-531  
 t: +49-(0)-69-45009-1011  
 e: info-engineeredmaterials-eu@celanese.com

### General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information

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