

VECTRA® V400P | LCP | Specialty

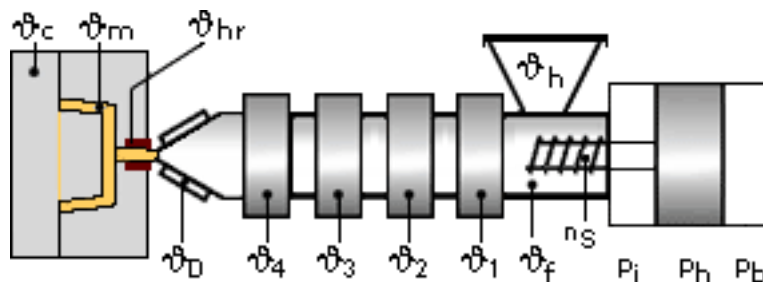
Description

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

Barrier (Film) properties	Value	Unit	Test Standard
Water vapor permeability @100°F	0.03	g-mil/(100in ² -day-atm)	DIN 53122-2
Oxygen permeability @73°F, 0% RH	0.09	cc-mil/100in ² -day-atm	DIN 53380 part 3
Oxygen permeability @73°F, 100%RH	0.08	cc-mil/100in ² -day-atm	DIN 53380 part 3

Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.01%

Drying time: 8 - 24 h

Drying temperature: 194 - 194 °F

Temperature:

	ϑ _{Melt}	ϑ _{Nozzle}	ϑ _{Zone4}	ϑ _{Zone3}	ϑ _{Zone2}	ϑ _{Zone1}
min (°F)	437	392	401	401	401	365
max (°F)	455	410	419	419	419	383

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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.

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