

VECTRA® V400P

Liquid Crystal Polymer

Celanese Corporation

Message:

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

General Information			
Features	Good chemical resistance		
	Transparent appearance		
	Halogen-free		
	Barrier resin		
	Flame retardancy		
Uses	Films		
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	Contact manufacturer		
Processing Method	Co-extrusion molding		
Resin ID (ISO 1043)	LCP		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Films	Nominal Value	Unit	Test Method
Oxygen Permeability			DIN 53380-3
23°C ¹	1.3	cc-25µm/m ² -day-atm	DIN 53380-3
23°C ²	1.4	cc-25µm/m ² -day-atm	DIN 53380-3
Water Vapor Permeability (38°C)	0.400	g-25µm/(m ² day-atm)	DIN 53122
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ³	110	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	8.0 - 24	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	185 - 195	°C	
Middle Temperature	205 - 215	°C	
Front Temperature	205 - 215	°C	
Nozzle Temperature	200 - 210	°C	

Processing (Melt) Temp	225 - 235	°C
Injection instructions		
Zone 4 Temperature: 205 to 215°C		
NOTE		
1.	100% RH	
2.	0% RH	
3.	Onset	

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