

VECTRA® S475

Liquid Crystal Polymer
Celanese Corporation

Message:

Super High Flow, High heat Resistance and Low Warp for Thin Parts.
Chemical abbreviation according to ISO 1043-1 : LCP
Inherently flame retardant
UL-Listing V-0 in natural and black 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 (USA)

General Information			
UL YellowCard	E83005-100600860		
Features	Low warpage		
	High liquidity		
	Heat resistance, high		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Resin ID (ISO 1043)	LCP		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.37	%	ISO 294-4
Flow direction	0.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	135	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress (23°C)	180	MPa	ISO 178
Flexural Strain at Break	2.4	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, not annealed	305	°C	ISO 75-2/A
8.0 MPa, not annealed	213	°C	ISO 75-2/C
Melting Temperature ¹	350	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.0E-5	cm/cm/°C	ISO 11359-2

Lateral	2.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value		Test Method
Relative Permittivity			
1 MHz	3.70		IEC 60250
2.05 GHz	4.15		Internal method
Dissipation Factor			
1 MHz	8.0E-3		IEC 60250
2.05 GHz	1.0E-3		Internal method
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.010	%	
Hopper Temperature	20.0 - 40.0	°C	
Rear Temperature	330 - 350	°C	
Middle Temperature	340 - 360	°C	
Front Temperature	345 - 365	°C	
Nozzle Temperature	355 - 370	°C	
Processing (Melt) Temp	360 - 375	°C	
Mold Temperature	80.0 - 120	°C	
Injection Pressure	50.0 - 150	MPa	
Injection Rate	Moderate		
Holding Pressure	50.0 - 150	MPa	
Back Pressure	0.00 - 3.00	MPa	
Injection instructions			
Manifold Temperature: 355 to 370°CZone 4 Temperature: 355 to 370°CFeed Temperature: 60 to 80°C			
NOTE			
1.	10°C/min		

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