

VECTRA® FIT70

Liquid Crystal Polymer
Celanese Corporation

Message:

35% glass and mineral reinforced grade. It offers excellent flowability, low warpage, excellent surface appearance, excellent dimensional stability, and good weldline strength.
Chemical abbreviation according to ISO 1043-1 : LCP
Inherently flame retardant

General Information			
UL YellowCard	E83005-101202466		
Filler / Reinforcement	Glass \mineral, 35% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Good liquidity		
	Excellent appearance		
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	0.43	%	ISO 294-4
Flow direction	0.050	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress (23°C)	140	MPa	ISO 178
Flexural Strain at Break	2.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	278	°C	ISO 75-2/B
1.8 MPa, not annealed	235	°C	ISO 75-2/A
Melting Temperature ¹	331	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	8.0E-6	cm/cm/°C	ISO 11359-2

Lateral	4.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	150 - 170	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	315 - 325	°C	
Middle Temperature	325 - 335	°C	
Front Temperature	330 - 350	°C	
Nozzle Temperature	330 - 340	°C	
Processing (Melt) Temp	335 - 345	°C	
Mold Temperature	80.0 - 140	°C	
Injection Pressure	50.0 - 150	MPa	
Injection Rate	Moderate-Fast		
Injection instructions			
Zone 4 Temperature: 330 to 350°C			
NOTE			
1.	10°C/min		

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