

VECTRA® FIT72

Liquid Crystal Polymer
Celanese Corporation

Message:

35% glass and mineral reinforced grade. It offers ultrahigh flowability, low warpage, and good mechanical property.
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	Low warpage		
	High liquidity		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Resin ID (ISO 1043)	LCP		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm³	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	12000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	MPa	ISO 527-2/1A/50
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress (23°C)	140	MPa	ISO 178
Flexural Strain at Break	2.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	284	°C	ISO 75-2/B
1.8 MPa, not annealed	240	°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
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 - 130	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT