

VECTRA® FIT30

Liquid Crystal Polymer
Celanese Corporation

Message:

43% glass and mineral reinforced grade. Glass and mineral filled grade, high flow and low warpage.
Chemical abbreviation according to ISO 1043-1 : LCP
Inherently flame retardant

General Information			
UL YellowCard	E83005-101248388		
Filler / Reinforcement	Glass \mineral, 43% 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	1.77	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12700	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Flexural Strain at Break	1.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.8	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	26	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	286	°C	ISO 75-2/B
1.8 MPa, not annealed	262	°C	ISO 75-2/A
Melting Temperature ¹	328	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	9.0E-6	cm/cm/°C	ISO 11359-2
Lateral	3.8E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+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 - 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

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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



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