

Vectra® FIT70

Resin ID (ISO 1043)

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

Product Description			
•	ed grade. It offers excellent flowability, lov al abbreviation according to ISO 1043-1 :		pearance, excellent dimensional stability, and
General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	• Glass\Mineral, 35% Filler	Glass\Mineral, 35% Filler by Weight	

General Information

Features	Flame RetardantGood Dimensional Stability	 Good Flow Good Surface Finish	Low Warpage
RoHS Compliance	Contact Manufacturer		

• LCP

ASTM &	ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40	%	
Flow	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.60E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.74E+6	psi	ISO 178
Flexural Stress (73°F)	20300	psi	ISO 178
Flexural Strain at Break	2.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	14	ft·lb/in²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	532	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	455	°F	ISO 75-2/A
Melting Temperature ²	628	°F	ISO 11357-3

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	6.0E+15 ohms	IEC 60093
Volume Resistivity	2.0E+16 ohms·cm	IEC 60093
	Processing Information	
Injection	Nominal Value Unit	
Drying Temperature	302 to 338 °F	
Drving Time	6.0 hr	



CLTE - Flow

CLTE - Transverse

4.4E-6 in/in/°F

2.4E-5 in/in/°F

ISO 11359-2

ISO 11359-2

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Injection	Nominal Value	Unit
Suggested Max Moisture	0.010	%
Rear Temperature	599 to 617	°F
Middle Temperature	617 to 635	°F
Front Temperature	626 to 662	°F
Nozzle Temperature	626 to 644	°F
Processing (Melt) Temp	635 to 653	°F
Mold Temperature	176 to 284	°F
Injection Rate	Moderate-Fast	
niection Notes		

Zone4 temperature: 330 to 350°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min