

Vectra® FIT30

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

	General I	nformation		
Product Description				
43% glass and mineral reinforce LCP Inherently flame retardant	d grade. Glass and mineral filled grade,	high flow and low warpage. Che	emical abbreviation according to ISO 1043-1	
General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Filler / Reinforcement	• Glass\Mineral, 43% Filler	Glass\Mineral, 43% Filler by Weight		
Features	Flame Retardant	High Flow	Low Warpage	
RoHS Compliance	Contact Manufacturer			
Resin ID (ISO 1043)	• LCP			

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.77	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1.89E+6	psi	ISO 527-2/1A	
Tensile Stress (Break)	18900	psi	ISO 527-2/1A/5	
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5	
Flexural Modulus (73°F)	1.84E+6	psi	ISO 178	
Flexural Stress (73°F)	24700	psi	ISO 178	
Flexural Strain at Break	1.9	%	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength (73°F)	2.8	ft·lb/in²	ISO 179/1eA	
Charpy Unnotched Impact Strength (73°F)	12	ft·lb/in²	ISO 179/1eU	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (66 psi, Unannealed)	547	°F	ISO 75-2/B	
Heat Deflection Temperature (264 psi, Unannealed)	504	°F	ISO 75-2/A	
Melting Temperature ²	622	°F	ISO 11357-3	
CLTE - Flow	5.0E-6	in/in/°F	ISO 11359-2	
CLTE - Transverse	2.1E-5	in/in/°F	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	

Processing Information			
Injection	Nominal Value Unit		
Drying Temperature	302 to 338 °F		
Drying Time	6.0 hr		
Suggested Max Moisture	0.010 %		
Rear Temperature	599 to 617 °F		
Middle Temperature	617 to 635 °F		
Front Temperature	626 to 662 °F		



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Injection	Nominal Value Unit
Nozzle Temperature	626 to 644 °F
Processing (Melt) Temp	635 to 653 °F
Mold Temperature	176 to 266 °F
Injection Rate	Moderate-Fast
Injection Notes	Woderate Fast

Zone4 temperature: 330 to 350°C

Notes

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



² 10°C/min