

# Vectra® E830iPd

Celanese Corporation - Liquid Crystal Polymer

Thursday, January 16, 2025

## General Information

### Product Description

30% glass filled Platable grade.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	
Features	• Flame Retardant • Heat Stabilized	• High Flow • Platable	
Processing Method	• Injection Molding	• Lead Free Soldering	
Part Marking Code (ISO 11469)	• >LCP-GF30<		
Resin ID (ISO 1043)	• LCP-GF30		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ISO 527-1
Tensile Stress (Break)	140	MPa	ISO 527-2/5
Tensile Strain (Break)	1.7	%	ISO 527-2/5
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Poisson's Ratio <sup>2</sup>	0.33		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength (23°C)	20	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	245	°C	ISO 75-2/A
Melting Temperature <sup>3</sup>	330	°C	ISO 11357-3
CLTE - Flow (-40 to 120°C)	4.2E-6	cm/cm/°C	ISO 11359-2
CLTE - Transverse (-40 to 120°C)	5.9E-5	cm/cm/°C	ISO 11359-2

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	150	°C
Drying Time - Desiccant Dryer	4.0 to 6.0	hr
Suggested Max Moisture	< 0.010	%
Processing (Melt) Temp	335 to 365	°C
Melt Temperature, Optimum	350	°C
Mold Temperature	80 to 120	°C

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Injection	Nominal Value	Unit
Mold Temperature, Optimum	95	°C
Drying Recommended	yes	
Screw Tangential Speed	11 to 12	m/min

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Calculated

<sup>3</sup> 10°C/min