



Vectra® S625

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

Low friction and wear resistance. Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant	• Low Friction	• Wear Resistant
RoHS Compliance	• Contact Manufacturer		
Resin ID (ISO 1043)	• LCP		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.20E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	17500	psi	ISO 527-2/1A/50
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	1.38E+6	psi	ISO 178
Flexural Stress (73°F)	22000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	1.9	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	12	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	520	°F	ISO 75-2/A
Heat Deflection Temperature (1160 psi, Unannealed)	264	°F	ISO 75-2/C
Vicat Softening Temperature	441	°F	ISO 306/B50
Melting Temperature ²	662	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	302	°F
Drying Time	6.0	hr
Suggested Max Moisture	0.010	%
Hopper Temperature	68 to 104	°F
Rear Temperature	653 to 671	°F
Middle Temperature	671 to 689	°F
Front Temperature	689 to 707	°F
Nozzle Temperature	689 to 707	°F
Processing (Melt) Temp	689 to 707	°F
Mold Temperature	176 to 284	°F

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Injection	Nominal Value	Unit
Injection Rate	Fast	
Back Pressure	< 435	psi

Injection Notes

Feeding zone temperature: 60 to 80°C
Zone4 temperature: 365 to 375°C
Hot runner temperature: 365 to 375°C

Notes

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

² 10°C/min