Vectra® MLX4243

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

High heat resistant, mineral filled LCP material with high flow. Material has silver metallic appearance for use in aesthetic metallic effect applications. Chemical abbreviation according to ISO 1043-1 : LCP FDA compliant

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Mineral		
Features	• High Flow	• High Heat Resistance	
Agency Ratings	• FDA Unspecified Rating		
Resin ID (ISO 1043)	• LCP		

ASTM & ISO Properties [1]

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.81E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	18900	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.91E+6	psi	ISO 178
Flexural Stress (73°F)	21800	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	473	°F	ISO 75-2/A
Melting Temperature [2]	630	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	302	°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 653	°F
Nozzle Temperature	635 to 653	°F
Processing (Melt) Temp	635 to 653	°F
Mold Temperature	176 to 266	°F
Injection Rate	Fast	

Injection Notes

Zone4 temperature: 335 to 350°C

Notes

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

[2] 10°C/min