Zenite® 5130L

Celanese Corporation - Liquid Crystal Polymer

Thursday, January 16, 2025

General Information

Product Description
30% glass-reinforced, lubricated

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 • High Impact Resistance	
Processing Method	• Injection Molding	• Lead Free Soldering	
Part Marking Code (ISO 11469)	• >LCP-GF30<		
Resin ID (ISO 1043)	• LCP-GF30		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10000	MPa	ISO 527-1
Tensile Stress (Break)	145	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Poisson's Ratio [2]	0.34		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	275	°C	
Melting Temperature [3]	320	°C	ISO 11357-3
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	V-0		UL 94
Flammability Classification (0.8 mm)	V-0		IEC 60695-11-10, -20

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	%
Mold Temperature	80 to 120	°C
Mold Temperature, Optimum	95	°C

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Injection	Nominal Value	Unit
Back Pressure	3.00	MPa
Drying Recommended	yes	
Screw Tangential Speed	11 to 12	m/min

Notes

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

[2] Calculated

[3] 10°C/min