

AIE LCP L9010F-GF40

Liquid Crystal Polymer

Asia International Enterprise (Hong Kong) Limited

Message:

AIE LCP L9010F-GF40 is a Liquid Crystal Polymer (LCP) material filled with 40% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of AIE LCP L9010F-GF40: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm ³	ISO 1183
Molding Shrinkage	0.10 to 0.30	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	162	MPa	ISO 527-2/50
Tensile Strain (Break)	1.5	%	ISO 527-2/50
Flexural Modulus ¹	16300	MPa	ISO 178
Flexural Stress ²	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	13	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	275	°C	ISO 75-2/B
1.8 MPa, Unannealed	263	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	140 to 160	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	300 to 330	°C	
Mold Temperature	80.0 to 150	°C	
NOTE			
1.	3.0 mm/min		
2.	3.0 mm/min		

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