

LAPEROS® E130G

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

High Heat Resistance, High Flow, Chopped glass fiber reinforced, Low injection pressure

General Information			
UL YellowCard	E106764-218438		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	High Flow		
	High Heat Resistance		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP-GF30<		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 1.00 mm	0.66	%	
Flow : 1.00 mm	0.060	%	
Water Absorption (23°C, 24 hr)	0.040	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	65		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	170	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	12000	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Flexural Strain	4.2	%	ISO 178
Color Number	VF2201/BK210P		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	35	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	270	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	44	kV/mm	
3.00 mm	23	kV/mm	

Dielectric Constant			IEC 60250
1 kHz	4.30		
1 MHz	3.80		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.030		
Arc Resistance	144	sec	
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			

1. 80x80x1 mm; Inj. Pressure 60MPa

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