

LAPEROS® A130

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Standard, Glass fiber reinforced, Standard

General Information			
UL YellowCard	E106764-218399		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
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	0.45	%	
Flow : 1.00 mm	0.010	%	
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	210	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	270	MPa	ISO 178
Flexural Strain	3.0	%	ISO 178
Color Number	VF2001/BK010P/BK025P		
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 (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	45	kV/mm	
3.00 mm	24	kV/mm	
Dielectric Constant			IEC 60250
1 kHz	4.10		
1 MHz	3.70		
Dissipation Factor			IEC 60250

1 kHz	0.020		
1 MHz	0.020		
Arc Resistance	137	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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