

LAPEROS® A150

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Standard, Glass fiber reinforced, High stiffness

General Information			
UL YellowCard	E106764-218401		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	High Stiffness		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP-GF50<		
Physical	Nominal Value	Unit	Test Method
Density	1.81	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 1.00 mm	0.40	%	
Flow : 1.00 mm	0.11	%	
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	180	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	20500	MPa	ISO 178
Flexural Stress	260	MPa	ISO 178
Flexural Strain	1.8	%	ISO 178
Color Number	VF2001/BK210P		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	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	1.0E+16	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	44	kV/mm	
3.00 mm	28	kV/mm	
Dielectric Constant			IEC 60250
1 kHz	4.50		
1 MHz	4.10		

Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.020		
Arc Resistance	180	sec	
Comparative Tracking Index	200	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

