

LAPEROS® T130

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Ultra-High Heat Resistant, High MP, Glass Fiber reinforced, Standard

General Information			
UL YellowCard	E106764-100112390	E106764-218465	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	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	0.51	%	
Flow : 1.00 mm	0.070	%	
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	165	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	14800	MPa	ISO 178
Flexural Stress	220	MPa	ISO 178
Flexural Strain	2.3	%	ISO 178
Color Number	VF2001/BK005P		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	320	°C	ISO 75-2/B
1.8 MPa, Unannealed	300	°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	47	kV/mm	
3.00 mm	25	kV/mm	
Dielectric Constant			IEC 60250
1 kHz	4.20		

1 MHz	3.80		
Dissipation Factor			IEC 60250
1 kHz	0.010		
1 MHz	0.030		
Arc Resistance	153	sec	
Comparative Tracking Index	150	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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