

LAPEROS® C400

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Heat Resistant, Mineral reinforced, Whiteness

General Information			
UL YellowCard	E106764-101247752		
Filler / Reinforcement	Glass\Mineral,50% Filler by Weight		
Features	Medium Heat Resistance		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP-(MD+GF)50<		
Physical	Nominal Value	Unit	Test Method
Density	1.96	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 1.00 mm	0.52	%	
Flow : 1.00 mm	0.22	%	
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	0.90	%	ASTM D638
Flexural Modulus	13500	MPa	ISO 178
Flexural Stress	145	MPa	ISO 178
Flexural Strain	1.2	%	ISO 178
Color Number	VF2001		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	15	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	IEC 60093
Electric Strength (3.00 mm)	11	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
1 kHz	5.70		
1 MHz	5.10		
Dissipation Factor			IEC 60250
1 kHz	0.020		

1 MHz	0.030		
Arc Resistance	181	sec	
Comparative Tracking Index	175	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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