

LAPEROS® S140M

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Ultra-High Heat Resistant, High T Stiffness, Super low gas generation

General Information			
UL YellowCard	E106764-218462		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	High Heat Resistance		
	High Stiffness		
	Low to No Outgassing		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP-GF40<		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 1.00 mm	0.76	%	
Flow : 1.00 mm	0.12	%	
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	120	MPa	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	12900	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Flexural Strain	2.8	%	ISO 178
Color Number	VF2001/BK010P		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	310	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	37	kV/mm	
3.00 mm	18	kV/mm	

Dielectric Constant			IEC 60250
1 kHz	4.00		
1 MHz	3.80		
Dissipation Factor			IEC 60250
1 kHz	0.010		
1 MHz	0.010		
Arc Resistance	154	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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