LAPEROS® A410

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Standard, Low warpage,High stiffness

General Information			
UL YellowCard	E106764-218407		
Filler / Reinforcement	Glass\Mineral,50% Filler by Weight		
Features	High Stiffness Low Warpage		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP-(GF+MD)50<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.84	g/cm³	ISO 1183
Molding Shrinkage [1]			Internal Method
Across Flow : 1.00 mm	0.35	%	
Flow : 1.00 mm	0.10	%	
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	155	MPa	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	18500	MPa	ISO 178
Flexural Stress	230	MPa	ISO 178
Flexural Strain	2.0	%	ISO 178
Color Number	VF2001/BK010P		
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	235	°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	66	kV/mm	
3.00 mm	22	kV/mm	
Dielectric Constant			IEC 60250

1 kHz	4.40		
1 MHz	4.00		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.020		
Arc Resistance	163	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		

Recommended distributors for this material

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