

LAPEROS® S471

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Ultra-High Heat Resistant, High T Stiffness, Low warpage

General Information			
UL YellowCard	E106764-100112391	E106764-267458	
Filler / Reinforcement	Glass\Mineral,45% Filler by Weight		
Features	High Heat Resistance		
	High Stiffness		
	Low Warpage		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP-(MD+GF)45<		
Physical	Nominal Value	Unit	Test Method
Density	1.77	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 1.00 mm	0.33	%	
Flow : 1.00 mm	0.10	%	
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	130	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	12700	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Flexural Strain	2.0	%	ISO 178
Color Number	VF2001/BK010P		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	335	°C	ISO 75-2/B
1.8 MPa, Unannealed	315	°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	40	kV/mm	

3.00 mm	20	kV/mm	
Dielectric Constant			IEC 60250
1 kHz	4.10		
1 MHz	4.00		
Dissipation Factor			IEC 60250
1 kHz	0.010		
1 MHz	0.010		
Arc Resistance	183	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

