

LAPEROS® A430

Liquid Crystal Polymer

Polyplastics Co., Ltd.

Message:

Standard, Low wear

General Information			
UL YellowCard	E106764-218410		
Additive	PTFE Lubricant		
Features	Good Wear Resistance		
	Lubricated		
UL File Number	E106764		
Part Marking Code (ISO 11469)	>LCP+PTFE<		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 1.00 mm	0.82	%	
Flow : 1.00 mm	-0.020	%	
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	175	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	6800	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Flexural Strain	6.5	%	ISO 178
Color Number	VF2002/BK010P		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	50	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+16	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	45	kV/mm	
3.00 mm	23	kV/mm	
Dielectric Constant			IEC 60250

1 kHz	3.50		
1 MHz	3.10		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.020		
Arc Resistance	94.0	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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