

# LAPEROS® GA130

## Polyplastics - Liquid Crystal Polymer

### General Information

#### Product Description

Standard, High flow, for SMT

GA Reinforced

#### General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• High Flow
UL File Number	• E106764
Part Marking Code (ISO 11469)	• >LCP-GF30<

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			Internal Method
Across Flow : 0.0394 in	0.42	%	
Flow : 0.0394 in	0.010	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	21800	psi	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	2.18E+6	psi	ISO 178
Flexural Stress	29000	psi	ISO 178
Flexural Strain	1.8	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	9.5	ft-lb/in <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	572	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	536	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
0.0394 in	1200	V/mil	
0.118 in	580	V/mil	
Relative Permittivity			IEC 60250
1 kHz	4.10		
1 MHz	3.70		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.030		
Arc Resistance	127	sec	ASTM D495
Comparative Tracking Index	175	V	IEC 60112

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Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

  

Additional Information	Nominal Value	Unit
Color Number	VF2201/BK210P	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 80x80x1 mm, 60 MPa Injection Pressure