

# LAPEROS® E130G

## Polyplastics - Liquid Crystal Polymer

### General Information

#### Product Description

Standard, for SMT

GF Reinforced, High Flow

#### 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	0.66	%	
Flow : 0.0394 in	0.060	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	24700	psi	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	1.74E+6	psi	ISO 178
Flexural Stress	24700	psi	ISO 178
Flexural Strain	4.2	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	17	ft-lb/in <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	65		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	518	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	473	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
0.0394 in	1100	V/mil	
0.118 in	580	V/mil	
Relative Permittivity			IEC 60250
1 kHz	4.30		
1 MHz	3.80		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.030		

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<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Arc Resistance	144	sec	ASTM D495
Comparative Tracking Index	125	V	IEC 60112
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	V-0		UL 94
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	
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