

LAPEROS® A230

Polyplastics - Liquid Crystal Polymer

General Information

Product Description

High Strength, High Toughness

CF Reinforced

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Features	• High Strength • High Toughness
UL File Number	• E106764
Part Marking Code (ISO 11469)	• >LCP-CF30<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Molding Shrinkage ²			Internal Method
Across Flow : 0.0394 in	0.24	%	
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	29000	psi	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	4.21E+6	psi	ISO 178
Flexural Stress	43500	psi	ISO 178
Flexural Strain	1.7	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	464	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (0.0394 in)	1.3E+2	ohms·cm	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Color Number	BK430P		

Notes

¹ Typical properties: these are not to be construed as specifications.

² 80x80x1 mm, 79 MPa Injection Pressure

