

LAPEROS® HA475

Polyplastics - Liquid Crystal Polymer

General Information

Product Description

Standard, High flow, for SMT

Low Warpage, Super High Flow

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber\Mineral, 30% Filler by Weight		
Features	• High Flow	• Low Warpage	
UL File Number	• E106764		
Part Marking Code (ISO 11469)	• >LCP-(GF+MD)30<		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Molding Shrinkage ²			Internal Method
Across Flow : 0.0394 in	0.31	%	
Flow : 0.0394 in	0.020	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	16000	psi	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	1.74E+6	psi	ISO 178
Flexural Stress	20300	psi	ISO 178
Flexural Strain	2.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	527	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	°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	1100	V/mil	
0.118 in	530	V/mil	
Relative Permittivity			IEC 60250
1 kHz	4.00		
1 MHz	3.50		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.030		
Arc Resistance	47.0	sec	ASTM D495
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method

