

LAPEROS® E525T

Polyplastics - Liquid Crystal Polymer

General Information

Product Description

Standard, for SMT

Low Fibrillation

General

Filler / Reinforcement	• Mineral, 25% Filler by Weight
UL File Number	• E106764
Part Marking Code (ISO 11469)	• >LCP-I-MD25<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage ²			Internal Method
Across Flow : 0.0394 in	0.36	%	
Flow : 0.0394 in	0.030	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	21000	psi	ASTM D638
Tensile Elongation (Break)	3.8	%	ASTM D638
Flexural Modulus	1.74E+6	psi	ISO 178
Flexural Stress	22500	psi	ISO 178
Flexural Strain	4.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft-lb/in ²	ISO 179/1eA
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	455	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
1 kHz	4.60		
1 MHz	4.00		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.030		
Arc Resistance	49.0	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	
Color Number	BK225P		