LAPEROS® S478

Polyplastics - Liquid Crystal Polymer

General Information

Product Description	
High Heat Resistance, High-temperature Stiffness	
Low Warpage, Super High Flow	

General		
Filler / Reinforcement	• Glass Fiber\Mineral, 40% Filler by Weight	
Features	• High Flow • High Heat Resistance	• High Stiffness • Low Warpage
UL File Number	• E106764	
Part Marking Code (ISO 11469)	• >LCP-(MD+GF)40<	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.72	g/cm³	ISO 1183
Molding Shrinkage [2]			Internal Method
Across Flow : 0.0394 in	0.39	%	
Flow : 0.0394 in	0.080	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.010	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	14500	psi	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	1.45E+6	psi	ISO 178
Flexural Stress	19600	psi	ISO 178
Flexural Strain	2.2	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.4	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	554	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength (0.0394 in)	970	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
1 kHz	4.40		
1 MHz	4.00		
Dissipation Factor			IEC 60250
1 kHz	0.020		
1 MHz	0.020		
Arc Resistance	183	sec	ASTM D495
Comparative Tracking Index	200	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94

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Additional Information	Nominal Value	Unit
Color Number	VF2201/BK210P	

Notes

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

[2] 80x80x1 mm, 60 MPa Injection Pressure