Polyplastics

LAPEROS® LCP General Properties(ISO)

Item	Unit	Test Method	Standard, High flow, for SMT
			GA130
			GF Reinforced
Color No.			VF2201/BK210P
ISO Marking Code		ISO11469 (JIS K6999)	>LCP-GF30<
Density	g/cm³	ISO 1183	1.61
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	-
Tensile strength	MPa	ASTM D638	150
Tensile elongation	%	ASTM D638	1.6
Flexural strength	MPa	ISO 178	200
Flexural modulus	MPa	ISO 178	15,000
Flexural strain	%	ISO 178	1.8
Charpy notched impact strength (23℃)	kJ/m²	ISO 179/1eA	20
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	280
Temperature of deflection under load (0.45MPa)	℃	ISO 75-1,2	300
Electric strength (1mmt)	kV/mm	IEC 60243-1	48
Electric strength (3mmt)	kV/mm	IEC 60243-1	23
Volume resistivity	Ω·cm	IEC 60093	3×10^{16}
Volume resistivity (Our standard)	Ω·cm		-
Relative permittivity (1kHz)		IEC 60250	4.1
Relative permittivity (1MHz)		IEC 60250	3.7
Dielectric dissipation factor (1kHz)		IEC 60250	0.02
Dielectric dissipation factor (1MHz)		IEC 60250	0.03
Tracking resistance (CTI)	V	IEC 60112	175
Arc resistance	s	ASTM D495	127
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure 60MPa)	%	Our standard	0.01
Mold Shrinkage (80×80×1mmt, Trans-direction, Inj. pressure60MPa)	%	Our standard	0.42
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure79MPa)	%	Our standard	-
Mold Shrinkage (80×80×1mmt, Trans direction, Inj pressure 79MPa)	%	Our standard	-
Rockwell hardness	M(Scale)	ISO2039-2	-
Flammability		UL94	V-0
The yellow card File No.			E106764
opriate List number of Ministerial Ordinance for			Item 16 of

Export Trade Control			Appendix -1

All figures in the table are the typical values of the material and not the minimum values of the material specifications. All data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application. For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet “SDS” of the proper material. This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.