

S3116

(ANSI:CEM-1) High CTI

特点

- 优异的耐漏电起痕性，CTI 600。
- 优异的冲孔性，可冷冲，有利于提高生产率，冲模使用寿命长。
- 良好的耐热性、耐湿性、良好的机械性能和电性能。

FEATURES

- Superior tracking resistance, CTI 600.
- Excellent punching property, cold punching applicable, increased throughput, long punching tool life.
- Good heat resistance and moisture resistance, good mechanical properties and electrical properties.

应用领域

高温、高压、潮湿、污秽场合中使用的电源基材、显示器、超声波设备等。

APPLICATIONS

Power supply, display, ultrasonic machine used in high-temperature high-pressure, moist and dirty situation..

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC		-	105
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125			
Volume Resistivity	C-96/35/90	M -cm	10^6	5.25×10^8
	E-24/125		10^3	3.06×10^6
Surface Resistivity	C-96/35/90	M	10^4	7.08×10^6
	E-24/125		10^3	6.26×10^6
Arc Resistance	D-48/50+D-0.5/23	S	60	120
Dielectric Breakdown	D-48/50+D-0.5/23	KV	40	49
Dielectric Constant (1MHz)	C-24/23/50	-	5.4	4.5
Dissipation Factor (1MHz)	C-24/23/50	-	0.035	0.021
Thermal Stress	Unetched	260 ,20s	No delamination	274 / 20s
	Etched			No delamination
Peel Strength	1oz	260 ,10s	1.05	1.78
	Cu. Foil		-	1.60
Flexural Strength	LW	A	242	400
	CW		172	350
Water Absorption	D-24/23	%	0.35	0.13
CTI	IEC60112 Method	V	600	600

Specimen Thickness: 1.6mm single side board

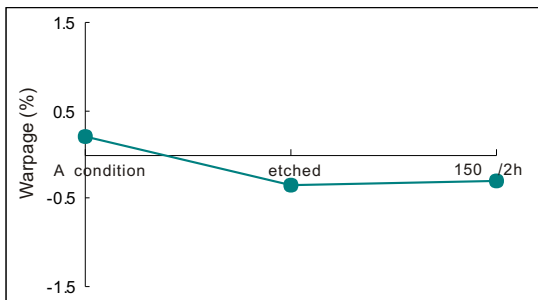
Explanations: C = Humidity conditioning;
D = Immersion conditioning in distilled water;
E = Temperature conditioning.

The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in and with the third digit the relative humidity.

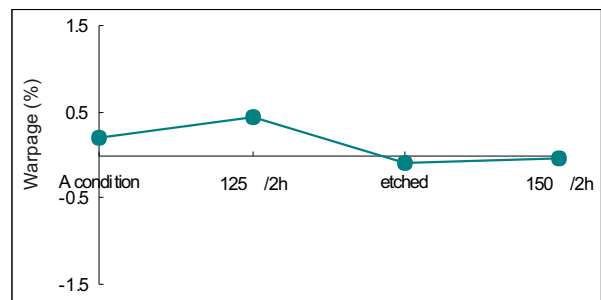
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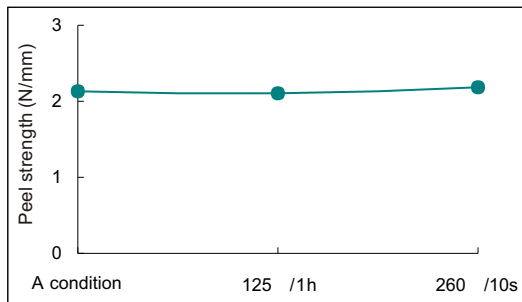
Warpage of S3116 (No-treating)



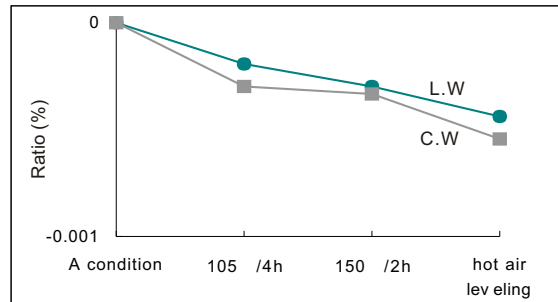
Warpage of S3116 (After treating: 125 /2hr)



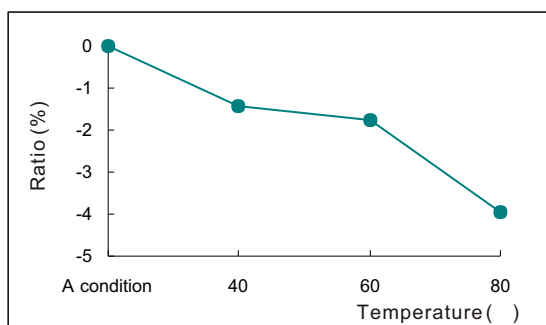
Peel strength



Dimensional stability



Hole diameter shrinkage Punching process



❖ Specimen Thickness: 1.6mm single side board

PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.6mm to 3.2mm	18 μ m to 105 μ m	1,020 x 1,220mm (40 x 48) 915 x 1,220mm (36 x 48) 1,070 x 1,220mm (42 x 48)

❖ Other sheet size and thickness could be available upon request.