

S3155

(ANSI:CEM-1) Halogen-Free CEM-1 Copper Clad Laminate

特点

- 不含卤素、锑、红磷等成分。
- 燃烧时不产生剧毒气体和不残留有毒成分。
- 良好的加工性与耐潮湿性。
- 符合IPC-4101标准及JPCA标准。

FEATURES

- Constituents free such as halogen, antimony and red phosphorus.
- No toxic gas emission and no hazardous residue during waste combustion.
- Good punching process and moisture resistance.
- Conform to IPC-4101 standard & JPCA standard.

应用领域

家用电器、电源基板、仪器仪表、游戏机等。

APPLICATIONS

Appliance, power base board, apparatus and instrument, game machine, etc.

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC		-	128
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125			
Volume Resistivity	C-96/35/90	M .cm	10^6	6.78×10^7
	E-24/125		10^3	1.08×10^5
Surface Resistivity	C-96/35/90	M	10^4	3.39×10^5
	E-24/125		10^3	8.84×10^4
Arc Resistance	D-48/50+D-0.5/23	S	60	115
Dielectric Breakdown	D-48/50+D-0.5/23	KV	40	45kv + NB
Permittivity (1MHz)	C-24/23/50	-	5.4	4.5
Loss tangent (1MHz)	C-24/23/50	-	0.035	0.010
Thermal Stress	Unetched Etched	260 ,20s	-	288 / 20s
				No delamination
Peel Strength	1oz Cu. Foil	260 ,10s 105	N/mm	1.05
				1.05
Flexural Strength	LW CW	A	MPa	242
				172
Water Absorption	E-1/105+DES+D-24/23	%	0.50	0.2
CTI	IEC-112	V	-	400

Specimen Thickness:1.6mm

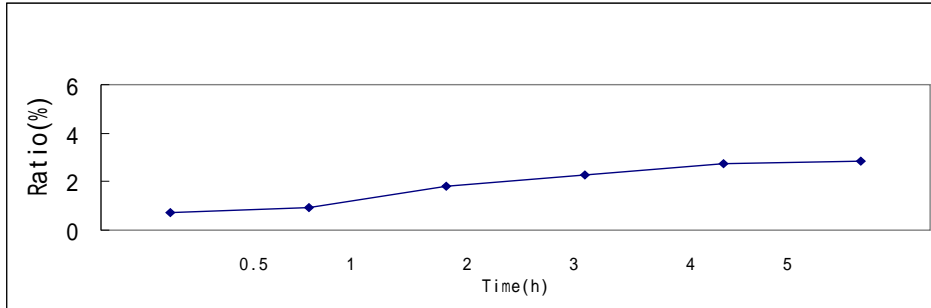
Explanations: C = Humidity conditioning;
D = Immersion conditioning in distilled water;
E = Temperature conditioning.

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.

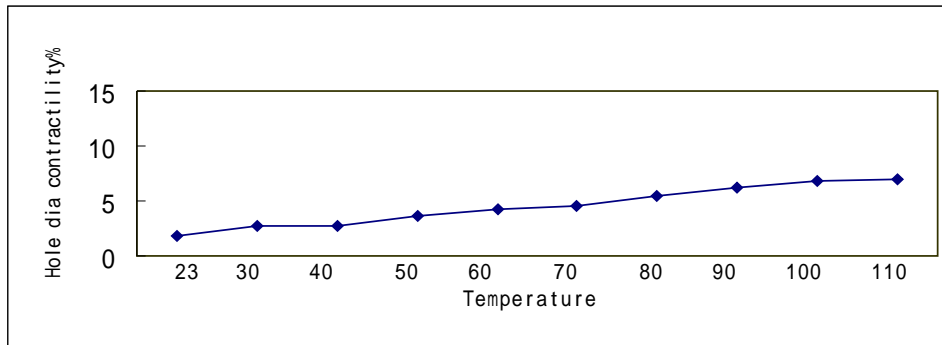
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Water absorption at pressure cooker



Hole dia contractility



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.

HALOGEN CONTENT TEST

✘ JPCA-ES-01-1999 Standard "Test method of halogen-free materials"

Halogen	JPCA Standard	S3155
Cl	0.09%	0.02%
Br	0.09%	0.00%