

S3110

(ANSI:CEM-1)

特点

- 优异的冲孔性，可冷冲，有利于提高生产效率，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

- 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

汽车电子、显示器、电源基板、键盘、仪器仪表、游戏机等。

APPLICATIONS

Automotive radio, display, power supply, keyboard, instrument, game machine, etc.

GENERAL PROPERTIES

| Test Item | Treatment Condition | Unit | Property Data | | |
|----------------------------|---------------------|------------|-------------------|----------------------|------------------------------|
| | | | SPEC | Typical Value | |
| Tg | DSC | °C | - | 110 | |
| Flammability | C-48/23/50 | - | V-0 | V-0 | |
| | E-24/125 | | | | |
| Volume Resistivity | C-96/35/90 | MΩ-cm | ≥ 10 ⁶ | 7.86×10 ⁸ | |
| | E-24/125 | | ≥ 10 ³ | 2.96×10 ⁶ | |
| Surface Resistivity | C-96/35/90 | MΩ | ≥ 10 ⁴ | 5.65×10 ⁶ | |
| | E-24/125 | | ≥ 10 ³ | 2.83×10 ⁶ | |
| Arc Resistance | D-48/50+D-0.5/23 | S | ≥ 60 | 118 | |
| Dielectric Breakdown | D-48/50+D-0.5/23 | KV | ≥ 40 | 49 | |
| Dielectric Constant (1MHz) | C-24/23/50 | - | ≤ 5.4 | 4.4 | |
| Dissipation Factor (1MHz) | C-24/23/50 | - | ≤ 0.035 | 0.022 | |
| Thermal Stress | Unetched Etched | 260°C, 20s | - | No delamination | |
| | | | | | 274°C 20s No delamination |
| Peel Strength | 1oz Cu. Foil | 260°C, 10s | N/mm | ≥ 1.05 | 1.80 |
| | | 105°C | | - | 1.60 |
| Flexural Strength | LW | A | MPa | ≥ 242 | 420 |
| | CW | | | ≥ 172 | 358 |
| Water Absorption | D-24/23 | % | ≤ 0.35 | 0.13 | |
| CTI | IEC60112 Method | V | - | 300 | |

Specimen Thickness: 1.6mm single side board

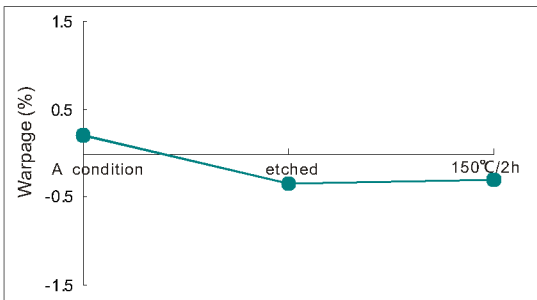
Explanations: C = Humidity conditioning;
D = Immersion conditioning in distilled water;
E = Temperature conditioning.

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 °C and with the third digit the relative humidity.

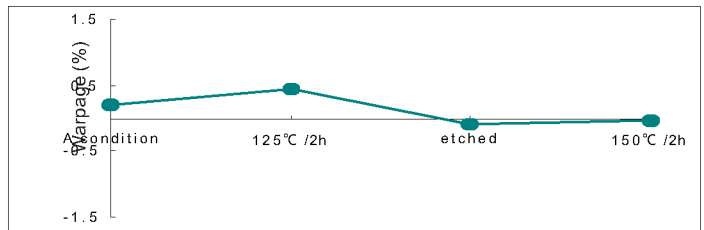
S3110

(ANSI:CEM-1)

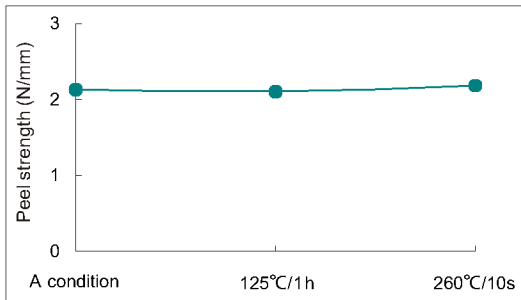
Warpage of S3110 (No-treating)



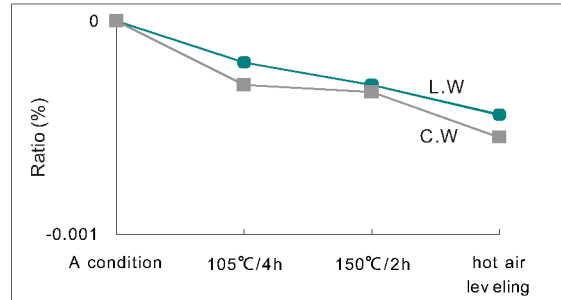
Warpage of S3110 (After treating: 125°C 2hr)



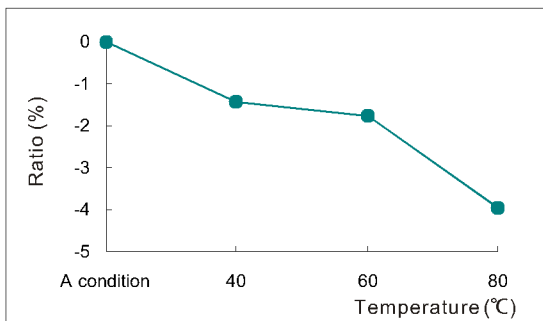
Peel strength



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 | 1,020×1,220mm (40"×48") 915×1,220mm (36"×48") 1,070×1,220mm (42"×48") |

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