



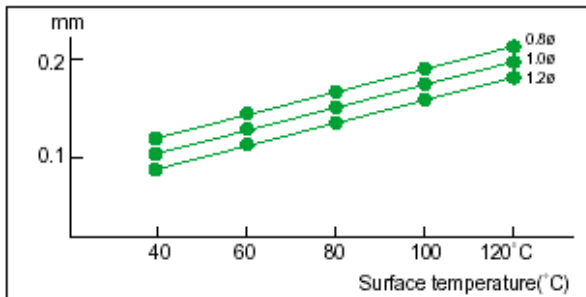
The World Leader in Technology and Quality. **Electro-Materials**

DS-1202G (ANSI : FR-2) GREEN LAMINATE

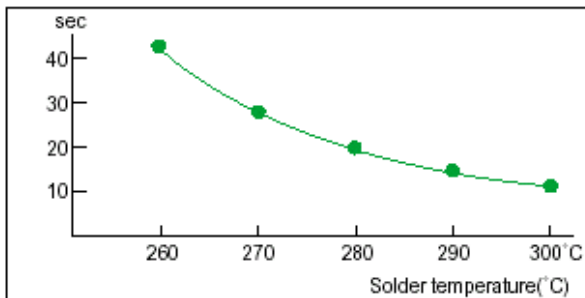
FEATURES

- Halogen-free, eliminated all kinds of brominated flame retardants
- Absence of highly toxic dioxins in burning exhaust gas
- Antimony-free, no toxic evolution during waste burning
- Less odor, no cresol and its derivatives used

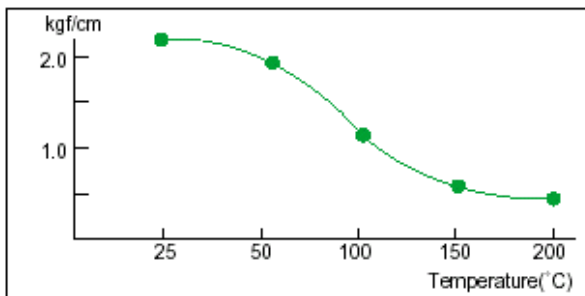
■ Punching hole shrinkage



■ Solder resistance at elevated temperature



■ Peel strength at elevated temperature



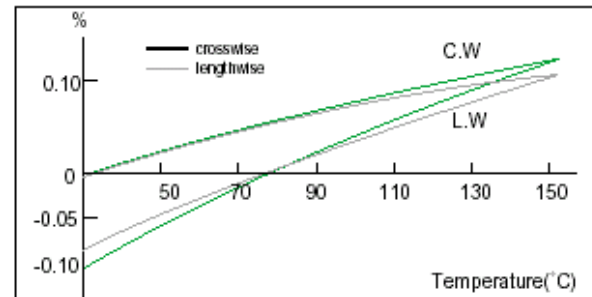
APPLICATIONS

Automatic vending machine, Heaters, Color TV, Microwave oven, Measuring equipment, etc.,

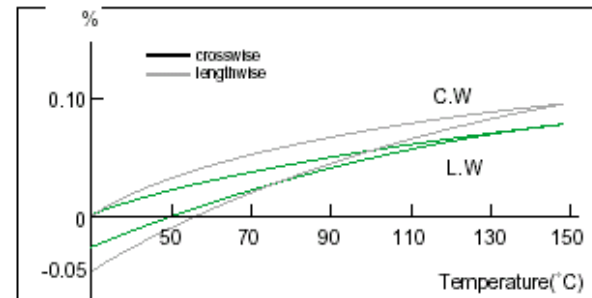
INTERNATIONAL STANDARD RECOGNITION

- UL : E103670
- BSI : 6741
- VDE : VDE-Reg-Nr. 4158

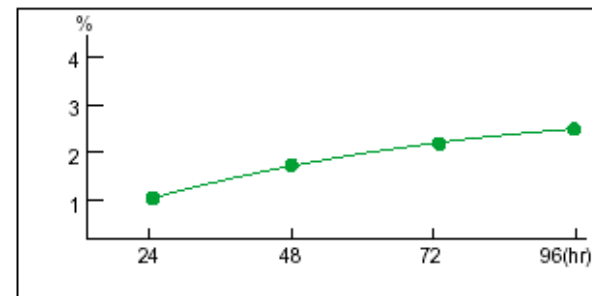
■ Thermal expansion and shrinkage (A Condition)



■ Thermal expansion and shrinkage (after treating 140°C 10Min 3times)



■ Water absorption (c-x6005)





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DS-1202G (ANSI : FR-2) GREEN LAMINATE

GENERAL PROPERTIES

| Test Item | Unit | Treatment Condition | Designation | DS-1202G |
|-------------------------------|------------------------------|--|--|--|
| | | | ANSI Grade | FR-2 |
| | | | Property Data | |
| | | | Standard Value | Guaranteed Value |
| Flammability | sec | UL 94 | avg : 3.0 max : 8.0 | avg : 5.0 max : 10.0 |
| Insulation Resistance | ohm | C-96/20/65 C-96/20/65+D-2/100 | 5×10^{11} - 5×10^{12} 3×10^9 - 3×10^9 | above 1×10^{11} above 1×10^9 |
| Volume Resistivity | ohm-cm | C-96/20/65 C-96/20/65+C-96/40/90 | 5×10^{13} - 5×10^{14} 1×10^{12} - 1×10^{13} | above 1×10^{12} above 1×10^{11} |
| Surface Resistance | Adhesive Surface | ohm | C-96/20/65 C-96/20/65+C-96/40/90 | above 1×10^{12} above 1×10^{10} |
| | Laminate Surface | ohm | C-96/20/65 C-96/20/65+C-96/40/90 | above 1×10^{11} above 5×10^9 |
| Dielectric Constant (1 MHz) | - | C-96/20/65 C-96/20/65+D-48/50 | 4.3 - 4.8 4.5 - 5.0 | less than 5.0 less than 5.3 |
| Dissipation Factor (1 MHz) | - | C-96/20/65 C-96/20/65+D-48/50 | 0.020 - 0.030 0.025 - 0.035 | less than 0.040 less than 0.050 |
| Comparative Tracking Index | volt | IEC Method | 400 | |
| Solder Float(260 °C) | sec | A | 30 - 40 | above 15 |
| Peel Strength | Cu.Foil 1 oz (0.035mm) | kgf/cm | A S | above 1.42 above 1.42 |
| | | | | |
| Flexural Strength(LW) (CW) | kgf/mm ² | A | 14 - 17 13 - 16 | above 8.16 above 8.16 |
| Water absorption | % | E-24/50+D-24/23 | 0.6 - 0.7 | less than 0.75 |
| Trichloroethylene Resistance | - | Immersion in boiling Trichloroethylene (For 2 minutes) | No abnormality | No abnormality |
| Punching Processability | | A | Suitable Temperature 40 °C - 60 °C | |

Specimen Thickness : 1.6mm

PURCHASING INFORMATION

- Copper foil : 1 oz/ft²(0.035 mm) copper foil as standard
- Thickness : 0.6mm to 3.2mm

| Standard Size | Tolerance(mm) |
|-------------------------------|---------------|
| 1,020 × 1,020mm (40" × 40") | +3 |
| 1,020 × 1,220mm (40" × 48") | -0 |
| 1,070 × 1,160mm (42" × 45.6") | |

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