



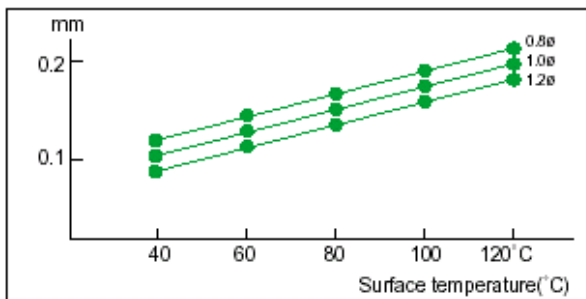
The World Leader in Technology and Quality. **Electro-Materials**

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

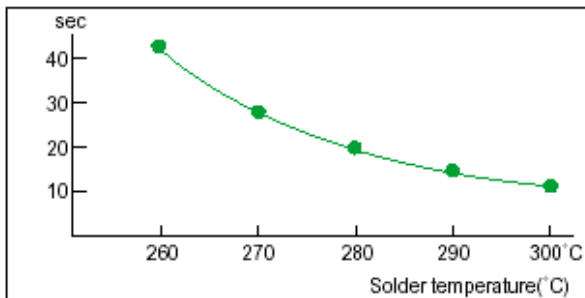
FEATURES

- 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

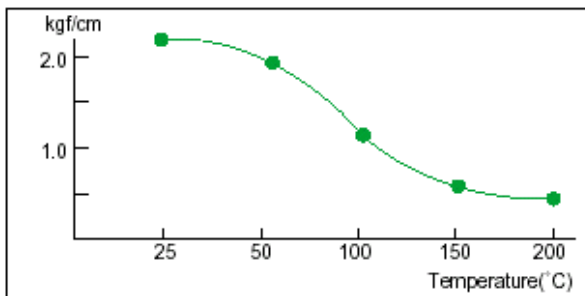
■ Punching hole shrinkage



■ Solder resistance at elevated temperature



■ Peel strength at elevated temperature



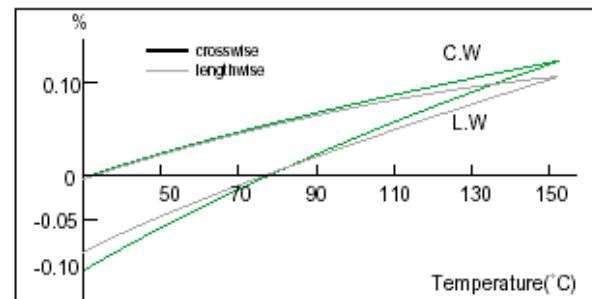
APPLICATIONS

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

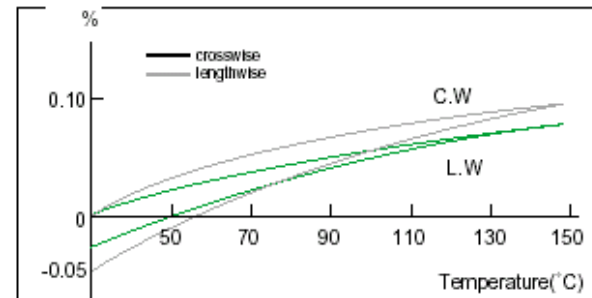
INTERNATIONAL STANDARD RECOGNITION

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

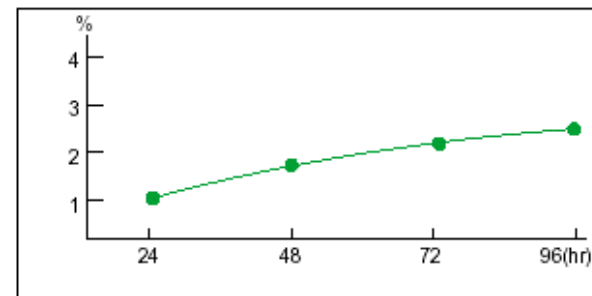
■ Thermal expansion and shrinkage (A Condition)



■ 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.