

DS-1108 (S)

(ANSI : FR-1) ANTI-SILVER MIGRATION, GREEN LAMINATE

COPPER CLAD LAMINATES

Features

- Halogen-free, eliminating all kinds of brominated flame retardants
- Anti-Silver Migration
- Superior electrical property under moisture condition
- High thermal resistance
- Flame retardant material
- Suitable to double side application by silver through hole

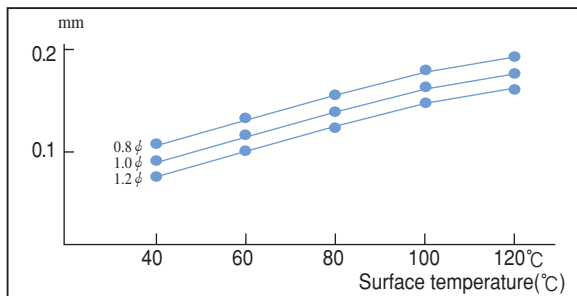
Applications

Cordless phone, Rom-Drive, Super VCR, CTV, CDP, Car electronics, Power supply, etc.

International Standard Recognition

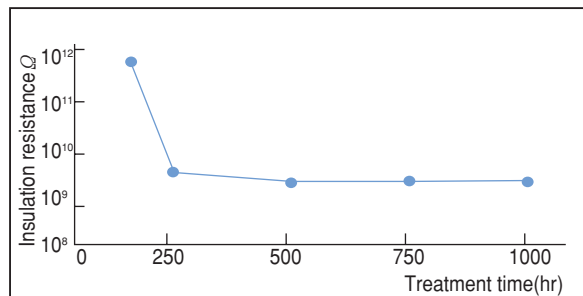
- UL : E103670
- CSA : LS-93237
- BSI : 6741
- VDE : VDE-Reg-Nr. 4158
- JET : V-0033

■ Punching hole shrinkage

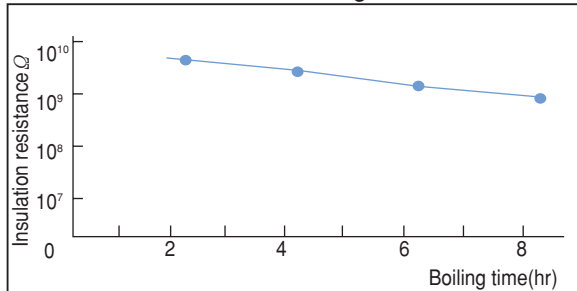


■ Anti-silver migration

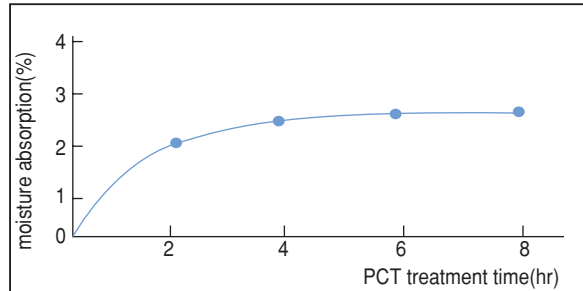
DC 50V applied 0.7φ hole 1.5mm pitch 40°C. 95%



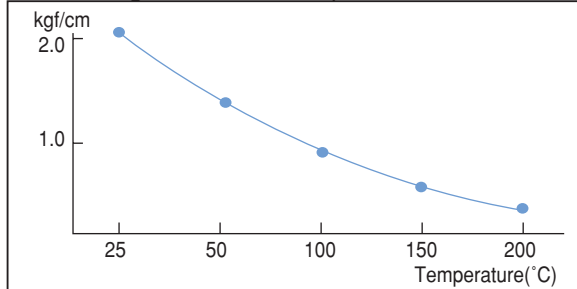
■ Insulation resistance after boiling



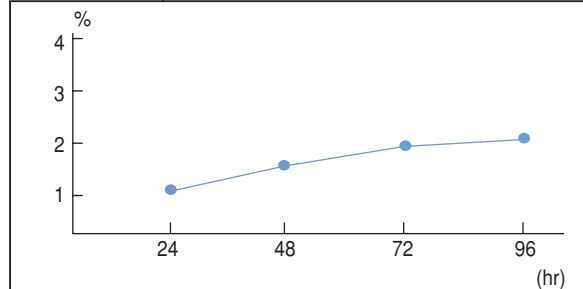
■ Moisture resistance



■ Peel strength at elevated temperature



■ Water absorption (C-X/60/95)



COPPER CLAD LAMINATES

General Properties

Test Item	Unit	Treatment Condition	Designation	DS-1108 (S)
			ANSI Grade	FR-1
			Property Data	
			Standard Value	Guaranteed Value
Flammability	sec	UL 94	avg : 3.0 max : 8	avg : 5.0 max : 10.0
Insulation Resistance	ohm	C-96/20/65 C-96/20/65+D-2/100	$1 \times 10^{12} - 1 \times 10^{13}$ $5 \times 10^{10} - 5 \times 10^{11}$	above 1×10^9 above 1×10^8
Volume Resistivity	ohm-cm	C-96/20/65 C-96/20/65+C-96/40/90	$1 \times 10^{13} - 1 \times 10^{14}$ $1 \times 10^{13} - 1 \times 10^{14}$	above 5×10^{10} above 5×10^9
Surface Resistance	Adhesive Surface	ohm	C-96/20/65 C-96/20/65+C-96/40/90	above 1×10^{10} above 5×10^9
	Laminate Surface	ohm	C-96/20/65 C-96/20/65+C-96/40/90	above 1×10^9 above 1×10^8
Dielectric Constant (1 MHz)	-	C-96/20/65 C-96/20/65+D-48/50	4.0 - 5.0 4.2 - 5.2	less than 5.5 less than 6.0
Dissipation Factor (1 MHz)	-	C-96/20/65 C-96/20/65+D-48/50	0.020 - 0.030 0.022 - 0.032	less than 0.050 less than 0.060
Solder Float (260 C)	sec	A	40 - 50	above 15
Peel Strength	Cu.Foil 1 oz (0.035mm)	kgf/cm	A	1.8 - 2.2
			S	1.8 - 2.2
Flexural Strength(LW) (CW)	kgf/mm ²	A	16 - 19 15 - 18	above 8.16 above 8.16
Water Absorption	%	E-24/50+D-24/23	0.5 - 0.7	less than 1.2
Trichloroethylene Resistance	-	Immersion in boiling Trichloroethylene (For 2 minutes)	No abnormality	No abnormality
Punching Process ability		A	Suitable Temperature 70 °C - 90 °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") 1,020 × 1,220mm (40"×48")	+3

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