



S1141

(ANSI:FR-4)UV Blocking

特点

- Tg140℃ (DSC)。
- UV Blocking/AOI兼容。
- 优良的机械加工性能。

FEATURES

- Tg140℃ (DSC)。
- UV Blocking/AOI Compatible.
- Excellent mechanical processability.

应用领域

电脑、仪器仪表、摄象机、通讯设备、电子游戏机、汽车、航空等。

APPLICATIONS

Computer, Instrumentation, VCR, communication equipment, electronic game machine, automotive electronics, aviation, and etc.

GENERAL PROPERTIES

Test Item		Treatment Condition	Unit	Property Data	
				SPEC	Typical Value
Tg		DSC	℃	≥135	140
Flammability		C-48/23/50	-	V-0	V-0
		E-24/125			
Volume Resistivity		After moisture resistance	M Ω-cm	≥10 ⁶	5.2×10 ⁸
		E-24/125		≥10 ³	5.2×10 ⁶
Surface Resistivity		After moisture resistance	M Ω	≥10 ⁴	5.4×10 ⁷
		E-24/125		≥10 ³	5.6×10 ⁶
Arc Resistance		D-48/50+D-0.5/23	S	≥60	120
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥40	60
Dielectric Constant (1MHz)		C-24/23/50	-	≤5.4	4.6
Dissipation Factor (1MHz)		C-24/23/50	-	≤0.035	0.015
Thermal Stress	Unetched	288℃, solder dip	-	>10s No delamination	60s No delamination
	Etched				
Peel Strength	1oz	288℃, 10s	N/mm	≥1.05	1.8
	Cu. Foil	125℃		≥0.70	1.6
Flexural Strength	LW	A	MPa	≥415	600
	CW			≥345	500
Water Absorption		D-24/23	%	≤0.80	0.15
CTE Z-axis	Before Tg	TMA	μ m/m℃	-	65
	After Tg	TMA	μ m/m℃	-	300
	50~260℃	TMA	%	-	4.5
Td		10℃/min, N ₂ , 5% Wt Loss	℃	-	310
T260		TMA	min	-	15
T288		TMA	min	-	2
CTI		IEC60112 Method	V	175~250(grade3)	175

Remarks: All the data listed above can meet IPC-4101/21 requirement.
Specimen Thickness:1.6mm

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

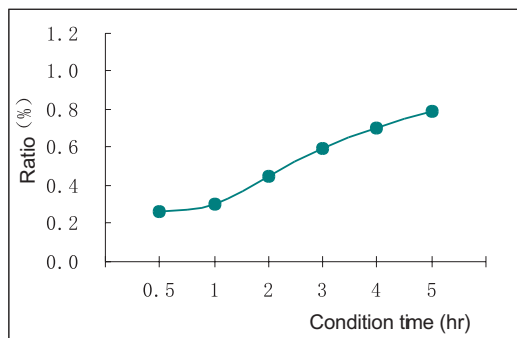
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



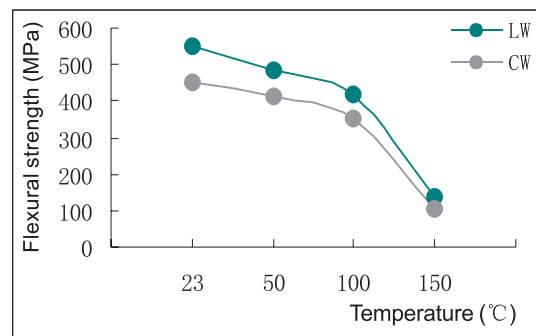
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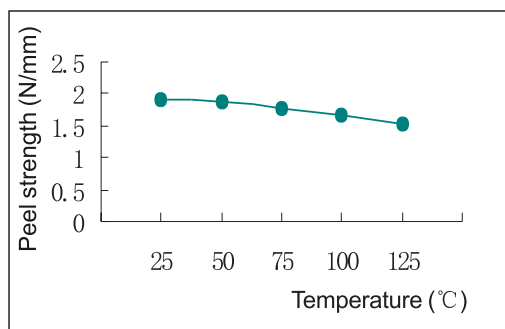
■ Water absorption at pressure cooker



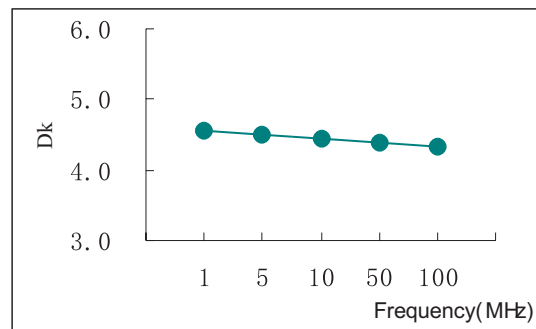
■ Flexural strength



■ Peel strength



■ Dielectric constant



PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.05mm to 3.2mm	12 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.