



# 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 process ability.

### 应用领域

电脑、仪器仪表、摄像机、通讯设备、电子游戏机、汽车、航空等。

### APPLICATIONS

Computer, Instrumentation, VCR, Communication equipment, Electronic game machine, Automobile, Aviation, 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	MΩ-cm	≥10 <sup>6</sup>	5.2×10 <sup>8</sup>
	E-24/125		≥10 <sup>3</sup>	5.2×10 <sup>6</sup>
Surface Resistivity	After moisture resistance	MΩ	≥10 <sup>4</sup>	5.4×10 <sup>7</sup>
	E-24/125		≥10 <sup>3</sup>	5.6×10 <sup>6</sup>
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	60s
	Etched		No delamination	No delamination
Peel Strength	1oz Cu. Foil	288℃, 10s	≥1.05	1.8
		125℃	≥0.70	1.6
Flexural Strength	LW	A	≥415	600
	CW		≥345	500
Water Absorption	D-24/23	%	≤0.80	0.15
CTE Z-axis	Before Tg	TMA	μm/m℃	65
	After Tg	TMA	μm/m℃	300
	50~260℃	TMA	%	4.5
Td	10℃/min, N <sub>2</sub> , 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.

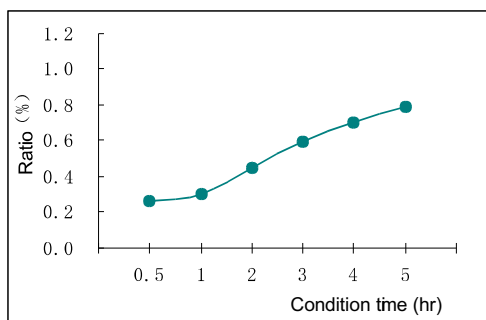
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



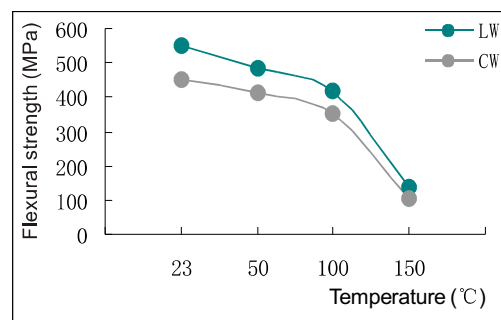
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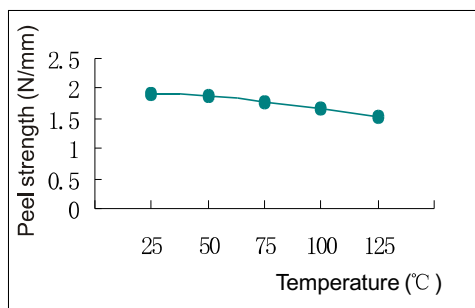
## Water absorption at pressure cooker



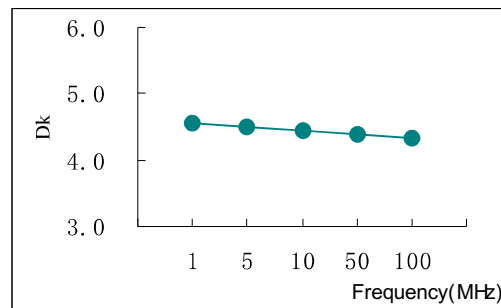
## Flexural strength



## 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.



# S0401 PREPREG

(ANSI:FR-4) Bonding Prepreg For S1141

## 特点

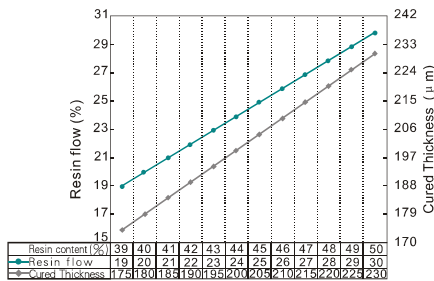
- Tg140℃ (DSC)。
- UV Blocking/AOI兼容。
- 优良的粘结性能，作业窗口宽。

## FEATURES

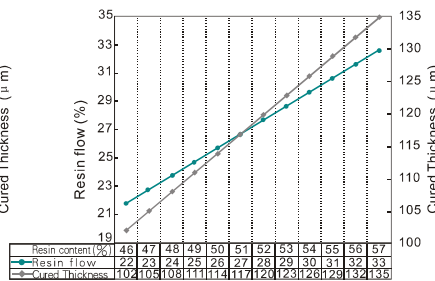
- Tg140℃ (DSC) .
- UV Blocking/AOI Compatible.
- Excellent bonding strength ,wide operating window.

## PREPREG PARAMETERS

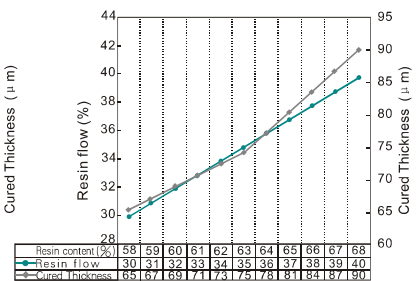
### 7628 TYPE PREPREG



### 2116 TYPE PREPREG



### 1080 TYPE PREPREG



Designation	Glass fabric type	Performance	Gel time (sec)	Resin content (%)	Resin flow (%)	Cured Thickness (μm)	Standard Size (roll type)
S0401	106	UV Blocking	160±20	71±3	37±5	50±10	1,260mm×114.3m (125yards)
	106LD			71±3	37±5	50±10	
	1080			X±3	X±5	X±10	
	1080LD			61±3	33±5	76±10	
	2112		150±20	57±3	30±5	90±15	
	2113			56±3	26±5	100±15	
	2313			55±3	26±5	100±15	
	3313			55±3	26±5	100±15	
	2116			X±3	X±5	X±15	
	2165			52±3	26±5	140±15	
	1500			45±3	22±5	160±15	
	7628			X±3	X±5	X±20	

Type, Resin content and Size Could be Available Upon Request

### Prepreg Test Method

- Resin content, Resin Flow, Gel Time: IPC-TM-650