

KB-6050/606X (ANSI : PREPREG)

環氧玻纖布半固化片

特點

- 層間粘合力好，流膠量合適
- 絕緣層厚度穩定，電氣特性優秀
- 操作範圍寬，性能重複性良好

Features

- Excellent interlayer bonding strength with optimum flow
- Consistent dielectric thickness and electrical characteristics
- Wide processing window and consistent performance

應用領域/Applications

- 適用於多層板的壓制
- For various multilayer pressing

Prepreg parameters 半固化片一般特性

UL Designation UL 型號	PP style 類型	Resin Content(%) 樹脂含量	Gel Time (sec/171°C) 膠化時間			Resin Flow(%) 流動度	DK (1MHZ) 介電常數	Thickness Perply (mil) 壓合厚度
			KB-6050	KB-6060 KB-6062	KB-6064/6065 KB-6067			
KB-6050 (FR-4)	106	70±3	100±30	110±30	90±30	50±5	3.87±0.25	2.0±0.2
	1080LR	61±3	115±30	115±30	95±30	40±5	3.95±0.25	2.8±0.4
	1080	63±3	110±30	115±30	95±30	42±5	3.90±0.25	3.0±0.4
KB-6060 (FR-4UV)	1080HR	65±3	105±30	110±30	90±30	44±5	3.85±0.25	3.2±0.3
	2313	58±3	110±30	115±30	95±30	37±5	4.05±0.25	4.0±0.4
KB-6062 (Halogen free)	2116LR	50±3	110±30	115±30	95±30	30±5	4.30±0.25	4.3±0.5
	2116	53±3	110±30	115±30	95±30	32±5	4.25±0.25	4.7±0.5
KB-6064 (Tg140)	2116HR	55±3	105±30	110±30	90±30	34±5	4.20±0.25	5.0±0.5
	1506LR	43±3	105±30	110±30	90±30	22±5	4.60±0.25	5.8±0.5
KB-6065 (Tg150)	1506	45±3	105±30	110±30	90±30	24±5	4.50±0.25	6.2±0.5
	7628L	45.5±3	105±30	110±30	90±30	24±5	4.50±0.25	7.3±0.6
	7628	44.5±3	110±30	115±30	95±30	23±5	4.60±0.25	7.3±0.6
KB-6067 (Tg170)	7268MR	46.5±3	105±30	110±30	90±30	24±5	4.50±0.25	7.8±0.6
	7628HR	49.5±3	100±30	105±30	85±30	30±5	4.40±0.25	8.3±0.8
	7630	49.5±3	100±30	105±30	85±30	30±5	4.30±0.25	9.0±1.0
	7630HR	50.5±3	100±30	105±30	85±30	30±5	4.30±0.25	9.3±1.0

Remark: ● Other fabric style are available upon request 其他基材布類型可按客戶要求提供
● Prepreg characteristics is adjusted to fit different processing condition of customer 半固化片指標可根據客戶制程要求調整

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推薦層壓工藝條件

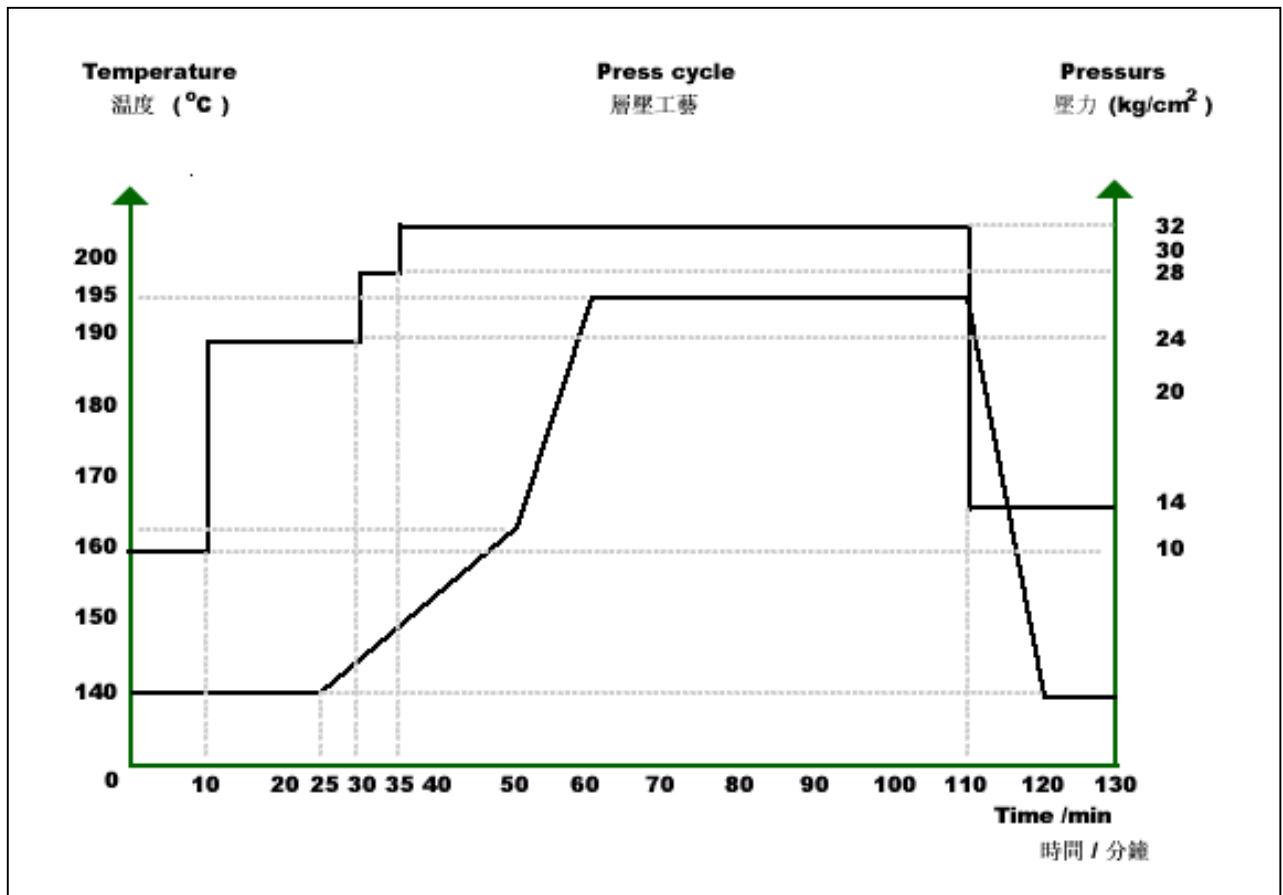
- 熱壓升溫速率(80°C-140°C之間)為 $1.5\pm 0.5^{\circ}\text{C}/\text{min}$
- 普通 PP 固化時間應維持不低於 175°C 至少 45min，高 TgPP 固化時間維持不低於 180°C 至少 60min
- 固化壓力為 $25\pm 5\text{kg}/\text{cm}^2$ (真空液壓壓機)
- 冷卻階段當板溫度 120°C 以上時，壓力應不低於 $10\text{kg}/\text{cm}^2$

Recommended Process Condition

- Temperature increases (between 80°C-140°C) by thermal pressing at $1.5\pm 0.5^{\circ}\text{C}/\text{min}$
- Curing condition should be maintained at 175°C or above for at least 45minutes for normal PP, while as at 180°C or above for at least 60 minutes for PP of high Tg
- Curing pressure should be $25\pm 5\text{kg}/\text{cm}^2$ with vacuum hydraulic press
- Pressure for cooling stage should be higher than $10\text{kg}/\text{cm}^2$ when product temperature is higher than 120°C

層壓過程溫度及壓力曲線 - 冷熱分開壓制體系

Press profile of temperature and pressure during pressing --For separated Hot/Cold press system



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保存期

- 短期 (3 個月) 存放，保持溫度低於 20°C，相對濕度低於 50%
- 長期 (6 個月) 存放，保持溫度低於 5°C，相對濕度低於 50%
- 長期保存的半固化片，在使用前須於室溫放置 4 小時以上
- 須防止紫外光及強光照射

Shelf Life

- For short (3 months) storage, keep the temperature at lower than 20°C and R.H. lower than 50%
- For long term (6 months) storage, keep the temperature at lower than 5°C and R.H. lower than 50%
- After long term storage, it should be normalized in the room temperature at least 4 hours before use
- Avoid UV rays or strong lights

Purchasing Information 採購資訊

PP 類型 style	布型 fabric style	幅寬 breadth	長度 length
106、1080LR、1080、1080HR、 2116LR、2116、2116HR、2313	106、1080 2116、2313	49.5 inch (1257mm)	300m/roll
1506LR、1506、7628、7628MR、 7628HR、7628L、7630、7630HR	1506、7628 7628L、7630		150m/roll

Note : LR means : low resin content

MR means : middle resin content

HR means : high resin content

Other prepreg size and style could be available upon request.

可根據客戶要求提供其他尺寸和厚度。

LR 表示：低樹脂含量

MR 表示：中樹脂含量

HR 表示：高樹脂含量