

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

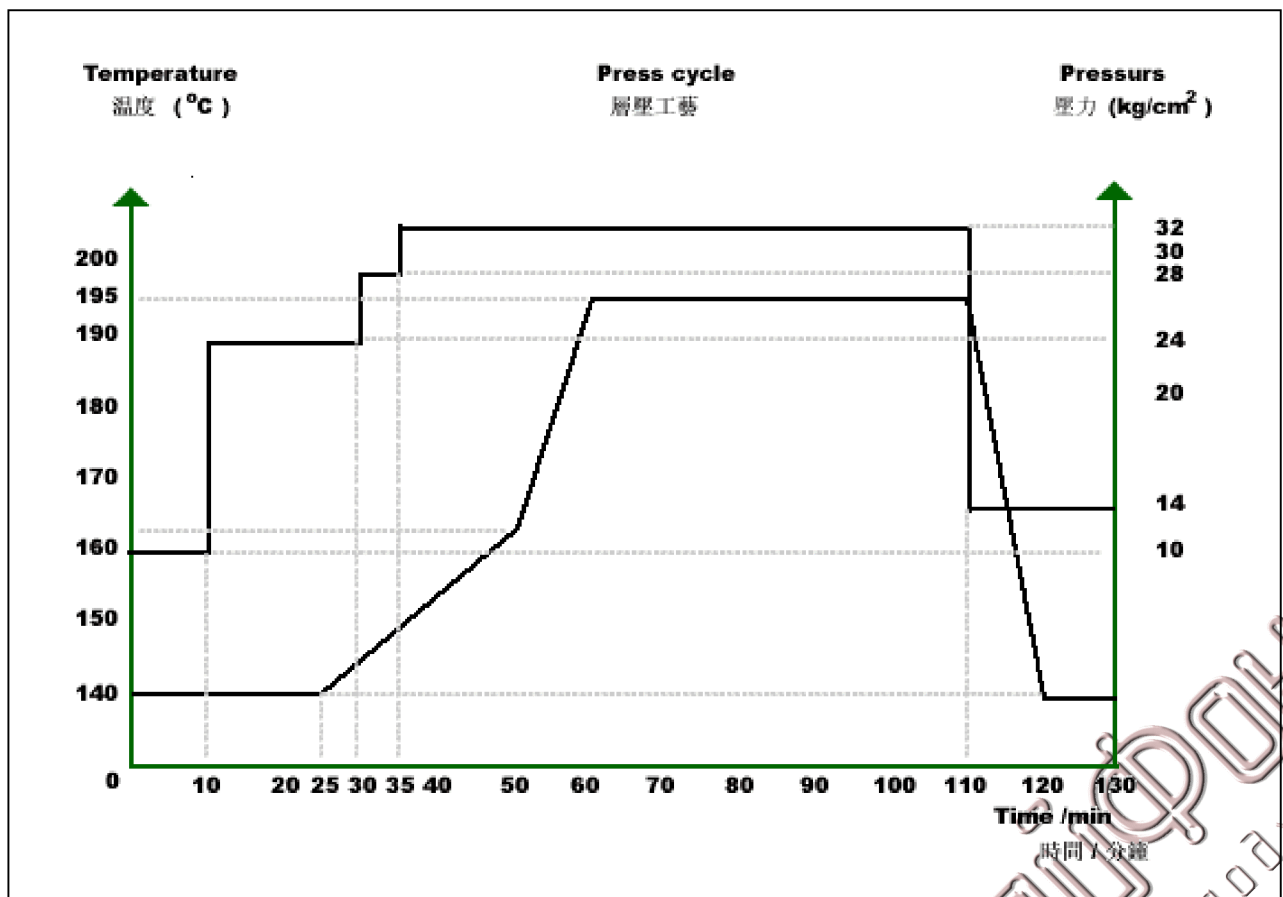
- 熱壓升溫速率(80°C-140°C之間)為 $1.5\pm 0.5^{\circ}\text{C}/\text{min}$
- 普通 PP 固化時間應維持不低於 175°C 至少 45min，高 TgPP 固化時間維持不低於 180°C 至少 60min
- 固化壓力為 $25\pm 5\text{kg}/\text{cm}^2$ (真空液壓壓機)
- 冷卻階段當板溫度 120°C 以上時，壓力應不低於 $10\text{kg}/\text{cm}^2$

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