

## 感光型防焊阻劑(LM-600-N) Liquid Photo-imaginable Solder Mask

LM-600 N 為一種接觸曝光鹼液顯影型之防焊阻劑，為一性能優異的網印印刷油墨，顯影後忠於底片具有高度之解像力。此二液型感光防焊阻劑經高溫後硬化之塗膜具高絕緣性及高耐焊性，產品性質優越，適用於 PCB 精密製造。

LM-600 N series are screen-printing contact exposure type photo-imaginable mask designed for printed circuit fabrication. It has sharp pattern, high resolution, high color stability for long baking time at high temperature and excellent electric properties. Also has fast curing speed, excellent printing properties and forming a tough protective film with excellent solder resist properties after post-curing for the production of PCB which require fine pattern with high density packaging.

### 技術資料 Technical Data

1. 特性 FEATURES	LM-600 N
顏色 Color	無色
不揮發性 Solid content	75 ± 2 %
黏度(25°C) Viscosity at 25 °C (VT-04, #2 針, #2 Spindle)	(1) A 劑 (Component A):330±30PS (2) B 劑 (Component B): 130±20PS
硬化條件 Curing Condition	紫外線曝光加熱後硬化 (3) UV Exposure and thermal curing
絕緣 Electric properties	(A)誘電率：0.04 (B)絕緣破壞值：2.7KV/cm
耐焊錫性 Resistance to molten solder	260±5 °C , 10 秒 seconds, ≥3 次
鉛筆硬化(JIS K5400) Film hardness by pencil lead	≥6H
密著性(JIS D0202) Adhesion	100/100
貯存安定性 Shelf life at 20-30 °C under dark packing	6 個月 month

<b>2. 作業流程 Operation conditions</b>	
電路基板前處理 Pretreatment for PCBs	清刷、酸處理、水洗 Buff, Acid Cleaning and Washing
主劑加硬化劑混合	70 wt % A + 30 wt % B
塗佈 Coating	網印 Screen Printing ( 36T、40T、43T )
預熱乾燥 Preheat drying	單面印刷 75°C 約 20 ~ 30 分鐘 雙面印刷 75°C 約 45 ~ 60 分鐘 Single layer heating at 75 °C about 20~30 minutes Double layer heating at 75 °C about 45~60 minutes
曝光條件 UV Exposure	約 400 ~ 550 mJ/cm <sup>2</sup> (依 21 格黑白底片曝至 9~11 格滿)
顯影條件 Imaging conditions	60~90 秒在 30±2 °C 的 1~2%碳酸鈉水溶液，水壓 1.5~2.0 60-90seconds at 30±2°C for 1-2 % Na <sub>2</sub> CO <sub>3</sub> aqueous solution
洗淨 Cleaning	水洗壓力 Water pressure : 2.0 ~ 2.5 kg/cm <sup>2</sup>
後硬化 Post curing	150°C×60 分鐘 minutes

以上各項數據僅供參考

The above information is for reference only.