



感光型防焊阻劑(LM-600 2WK9)

Liquid Photo- imaginable Solder Mask (2WK9)

LM-600 2WK9 為一種高性能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。有其下列特色：

1. 可通過 1 mil 隔焊
2. 邊塞邊印塞孔可耐無鉛噴錫
3. 可通過 Kaster985 助焊劑 $288\pm 5\text{ }^{\circ}\text{C}$, 10 秒 seconds, ≥ 3 次 times

LM-600 2WK9 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. The major properties are :

1. Can process 1 mil solder dam
2. Can be plug ink at one printing and resisted lead free solder process
3. Can be passed the Kaster 985 flux at $288\pm 5\text{ }^{\circ}\text{C}$, 10 seconds, ≥ 3 times

技術資料 Technical Data

1. 特性 FEATURES	LM-600 2WK9
顏色 Color	白色 Gross White
不揮發性 Solid content	$75 \pm 2\%$
黏度(25°C) Viscosity at 25 °C (VT-04, #2 針, #2 Spindle)	A 劑 (Component A): $320\pm 40\text{PS}$
硬化條件 Curing Condition	紫外線曝光加熱後硬化 (1) 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	$288\pm 5\text{ }^{\circ}\text{C}$, 10 秒 seconds, ≥ 3 次 times
鉛筆硬化(JIS K5400) Film hardness by pencil lead	$\geq 6\text{H}$

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
2. 作業流程 Operation conditions	
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 350 ~ 500 mJ/cm ² (依 21 格黑白底片曝至 6-8 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 ₂ CO ₃ aqueous solution
洗淨 Cleaning	水洗壓力 Water pressure : 2.0 ~ 2.5 kg/cm ²
後硬化 Post curing	150°C x60 分鐘 minutes

以上各項數據僅供參考

The above information is for reference only.