

NanYA Photoimageable Solder Mask Ink

Introduction:

Two component. Screen printing. Alkaline development. / Certification of U.S.P NO.5858618

Characteristics:

Items. Type Number	LP-4G
Typical versions	G-05
Hardener	HP-25D
Color	green
Mixing ratio	Main agent 75 / Hardener 25, by wgt.
Solid content	75 +/- 3%
Viscosity(VT- 04 viscometer / 25°C)	150 – 300 ps (after mixture)
Shelf life (stored below 25 °C)	6 months after production / pot life 24 hours after mixture
Surface pretreatment	Chemical and mechanical treatment
Diluent	B.C.S or DPM 3% ↓ (if necessary)
Printing	Polyester screen 90-130 mesh
Pre-bake	Temp.:70-75°C Time: 1st side 15-25 min 2nd side 20-30 min Both side 40-60 min
Cooling down	Natural or forced cooling to room temperature
Exposure	300 – 600 mj / cm² (on solder mask)
Hold time	10 – 30 min
Development	Temp.: 31 - 35°C Spray pressure: 2.0 – 3.0 kg / cm² Time: 60 – 120 sec
Post – bake	150°C / 50 – 70 min
Adhesion	100 / 100 (JIS D – 0202)
Pencil hardness	6 H ↑ (JIS D – 0202)
Solder heat resistance	260°C / 10 sec × 3 cycle
Acid resistance	≧ 30 min(10% H₂SO₄ (aq) , 20°C)
Alkali resistance	≧ 30min (10% NaOH (aq) , 20°C)
Solvent resistance	≧ 30min (trichloroethane, 20°C)
Insulation resistance	5.0 × 10¹² Ω
Flammability	UL 94 V – 0 (UL File No. E123174)