

NanYA Photoimageable Solder Mask Ink

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

Characteristics:

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| 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) |