

INSPECTION CERTIFICATE

 **TAIYO INK MFG. CO., LTD.**

900 HIRASAWA, RANZAN-MACHI HIKIGUN

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Inspection Sec.

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PSR-4000 D10ME

Lot No.

0110215

General Judgment

PASS

Nov. 3.2020

| Items | Test method | Specifications | Result |
|-------------------|--|--|----------|
| Appearance | Compare to the previous lot | No difference in hue hardness, flowability. No foreign matters | PASS |
| Viscosity | Cone Plate type Viscometer (Just after production) | 170+/-20dPa·s (Ps) (At 5min · · 25°C) (Main agent) | 173dPa·s |
| Tack Free | Coating thickness: 15 μm 80°C / 30min. (At hot air box oven) | Ink never transfer to nega film | PASS |
| Photo sensitivity | On FR-4 base material Step Tablet: Stouffer 41 step | Under mylar film, 12 MIN at 75mJ/cm ² | No. 14 |
| Developability | Pre-baked at 80°C / 40min. 1wt%, Na ₂ CO ₃ , 30°C, 60sec 0.196MPa (2kg/cm ²) | No ink residue after develop No blistering and/or No peeling | PASS |

Remarks:

Curing condition

Exposure: 75mJ/cm² (Metal halide lamps)

150°C/60min. (Hot air convection oven)

Post UV 1000mJ/cm²

| | | | |
|--------------------|--|------------------------------------|---------|
| Pencil hardness | TAIYO Internal Test Method (GIP-010AA) | 6H or above (On copper) | 6H |
| Adhesion | TAIYO Internal Test Method (GIP-008AA) | 100/100 | 100/100 |
| Solder Resistance | TAIYO Internal Test Method (GIP-009AA) Rosin based flux; 260+/-5°C 30sec. × 1cycle | No blistering and/or No peeling | PASS |
| Solvent Resistance | Immersed in PGM-Ac 20°C/20min. | No blistering and/or No peeling | PASS |

RoHS Compliance

Approved by:

S. Kobayashi