

INV. No. 694020-A

# INSPECTION CERTIFICATE

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

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Inspection Sec.

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PSR-4000 D10ME

Lot No. 1012615

General Judgment

**PASS**

Jan. 27. 2021

| Items             | Test method  | Specifications   | Result   |
|-------------------|--|--|----------|
| Appearance        | Compare to the previous lot  | No difference in hue<br>hardness, flowability.<br>No foreign matters | PASS     |
| Viscosity         | Cone Plate type Viscometer<br>(Just after production)                                      | 170+/-20dPa·s (Ps)<br>(At 5min. · 25°C) (Main agent)                 | 165dPa·s |
| Tack Free         | Coating thickness: 15 μm<br>80°C / 30min.<br>(At hot air box oven)                         | Ink never transfer to<br>nega film                                   | PASS     |
| Photo sensitivity | On FR-4 base material Step<br>Tablet: Stouffer 41 step                                     | Under mylar film,<br>12 MIN at 75mJ/cm <sup>2</sup>                  | No. 15   |
| Developability    | Pre-baked at 80°C / 40min.<br>1wt%, Na2CO3, 30°C, 60sec<br>0.196MPa (2kg/cm <sup>2</sup> ) | No ink residue after develop<br>No blistering and/or<br>No peeling   | PASS     |

Remarks: Curing condition  
Exposure: 75mJ/cm<sup>2</sup> (Metal halide lamps)  
150°C/60min. (Hot air convection oven)      Post UV 1000mJ/cm<sup>2</sup>

|                    |  |                                    |         |
|--------------------|--|------------------------------------|---------|
| 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)<br>Rosin based flux; 260+/-5°C<br>30sec. × 1cycle | No blistering and/or<br>No peeling | PASS    |
| Solvent Resistance | Immersed in PGM-Ac<br>20°C/20min.  | No blistering and/or<br>No peeling | PASS    |

RoHS Compliance

Approved by:

*S. Kobayashi*

S. Kobayashi, Inspection.