

## INSPECTION CERTIFICATE

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

900 HIRASAWA, RANZAN-MACHI HIKIGUN

SAITAMA 355-0215 JAPAN

Inspection Sec.

TEL +81-493-61-2711

PSR-4000 AUS320E

Lot No.

0112415

General Judgment

**PASS**

Nov. 25. 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)	180+/-30dPa·s (Ps) (At 5min, 25°C) (Main agent)	171dPa·s
Tack Free	Coating thickness: 20 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	7 MIN at 700mJ/cm <sup>2</sup> after permeation through glass plate (Contact Exposure)	No. 8
Developability	Pre-baked at 80°C / 50min. 1wt%, Na <sub>2</sub> CO <sub>3</sub> , 30°C, 90sec 0.196MPa (2kg/cm <sup>2</sup> )	No ink residue after develop No blistering and/or No peeling	PASS

Remarks:

Curing condition

Exposure: 700mJ/cm<sup>2</sup>

(High-pressure mercury short arc lamp)

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) Rosin based flux: 260+/-5°C 10sec. × 3cycle	No blistering and/or No peeling	PASS
Solvent Resistance	Immersed in PGM-Ac 20°C/30min.	No blistering and/or No peeling	PASS

RoHS Compliance

Approved by:



S. Kobayashi, Inspection.