## TAIYO AMERICA, INC.

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## CERTIFICATE OF ANALYSIS and CONFORMANCE

This is to certify that the following product has been inspected prior to sale and shipment, and complies with Taiyo America's manufacturing specifications for this product.

This product meets all the requirements of IPC-SM-840E Classes H and T and Bellcore (Telecordia) GR-78-CORE and is UL recognized 94V-0 (File #E166421, UL Name: PSR-4000BV).

Mfg. Date: 7-17-19 Lot# 9071737 PSR-4000 (AUS5) Warranty Ends: 2-17-20 MANUFACTURING **PROPERTY TEST METHOD SPECIFICATION** RESULT VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 300 - 360 ps ps 5 rpms @ 25°C After mixing: 200 - 240 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.0 - 1.4 FINENESS OF GRIND TAI-0-0002 15 microns maximum microns VISUAL EXAMINATION Microscopic examination: 1. 1-mil drawdown of wet film Passed No bubbles, pits, voids, particles, color differences. 2. Wet film drawdown on No bubbles, pits, voids, **Passed** W grind gauge particles, color differences. **SCREENABILITY** Visual inspection of screen Passed W No surface defects. printed panel such as bubbles, pinholes, etc. **TACK-DRY** Hot air convection oven **Passed** Tack-free to the touch 80°C/30 minutes **IMAGING** :10 ORC HMW 680GW - 7 kW Stouffer 21 step: 9 - 12 500 mJ / cm<sup>2</sup> (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi RESISTANCE TO 260°C (500°F) / 10 sec x 3 cycles Passed No discoloration, peeling, W **SOLDERING** (\*) Rosin-based flux or blistering **SOLVENT** Immersion in PM Acetate Passed No swelling, softening, TU **RESISTANCE** (\*) 20°C / 30 mins. or blistering PENCIL HARDNESS (\*) TAI-0-0020 5H or greater ADHESION (\*) TAI-0-0021 100/100 on copper **Passed** W

(\*) - Final cure for these tests was 60 minutes @ 150°C (302°F) in a convection oven

Verified By:

O.C. SUPERVISOR 7/19/19

Name, Title, Date

FRM-0-0019