## 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 Taivo 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-4000BN).

Lot# 9032527 Mfg. Date: 3-25-19 PSR-4000BN (HV) Warranty Ends: 3 - 25 - 20 **MANUFACTURING TEST METHOD** RESULT **PROPERTY** SPECIFICATION VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 325 - 375 ps 5 rpms @ 25°C ps After mixing: 175 - 225 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.2 - 1.6 microns FINENESS OF GRIND TAI-0-0002 15 microns maximum VISUAL EXAMINATION Microscopic examination: **Passed** No bubbles, pits, voids, 1. 1-mil drawdown of wet film particles, color differences. **Passed** 2. Wet film drawdown on No bubbles, pits, voids, grind gauge particles, color differences. **SCREENABILITY Passed** Visual inspection of screen No surface defects, printed panel such as bubbles, pinholes, etc. **Passed TACK-DRY** Hot air convection oven Tack-free to the touch 80°C/30 minutes 10 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 9 - 13 500 mJ / cm (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi RESISTANCE TO **Passed** 260°C (500°F) / 10 sec x 3 cycles No discoloration, peeling, **SOLDERING** (\*) Rosin-based flux or blistering SOLVENT **Passed** Immersion in PM Acetate No swelling, softening, **RESISTANCE** (\*) 20°C / 30 mins. or blistering PENCIL HARDNESS (\*) TAI-0-0020 7H or greater **ADHESION (\*) Passed** TAI-0-0021 100/100 on copper

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

Verified By:

Name,

Title,

Date