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-4000BN).

Lot# 9121177 Mfg. Date: 12-11-19 **PSR-4000BN (HV)** Warranty Ends: 2-11-20 MANUFACTURING **TEST METHOD PROPERTY SPECIFICATION** RESULT VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 325 - 375 ps ps 5 rpms @ 25°C After mixing: 175 - 225 ps ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.2 - 1.6 FINENESS OF GRIND microns TAI-0-0002 15 microns maximum VISUAL EXAMINATION Microscopic examination: **Passed** 1. 1-mil drawdown of wet film No bubbles, pits, voids, 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. TACK-DRY **Passed** Tack-free to the touch Hot air convection oven 80°C/30 minutes 10 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 9 - 13 500 mJ / cm² (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, **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:

A.C. SUSSINISON 12/19/17

Name, Title, Date