## 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).

Mfg. Date: 10-19-20 Lot # 0101937 PSR-4000BN Warranty Ends: 10-19-21 **MANUFACTURING** RESULT **SPECIFICATION** TEST METHOD **PROPERTY** 239 VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 225 - 275 ps 157 ps 5 rpms @ 25°C After mixing: 135 - 165 ps THIXOTROPIC INDEX 1.4 Toki Sangyo RE100U Viscometer After mixing: 1.2 - 1.6 Viscosity ratio: 5 rpm / 50 rpm microns FINENESS OF GRIND 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. Passed **SCREENABILITY** Visual inspection of screen No surface defects, printed panel such as bubbles, pinholes, etc. Passed W **TACK-DRY** Hot air convection oven Tack-free to the touch 80°C/30 minutes 11 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 9 - 13 500 mJ / cm<sup>2</sup> (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi Passed RESISTANCE TO 260°C (500°F) / 10 sec x 3 cycles W No discoloration, peeling, **SOLDERING** (\*) Rosin-based flux or blistering **Passed SOLVENT** 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:

O.C. SUPERVISOR 10/20/20

Name, Title, Date

10/14/11