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).

PSR-4000BN (DG) DI Lot# 1040607 Mfg. Date: 4-06-2-1 Warranty Ends: 4-06-22 **MANUFACTURING TEST METHOD** <u>SPECIFICATION</u> RESULT Toki Sangyo RE100U Viscometer 5 rpms @ 25°C 201 After mixing: 175 - 225 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer 1.4 Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.2 - 1.6 FINENESS OF GRIND TAI-0-0002 microns 15 microns maximum 5 VISUAL EXAMINATION Microscopic examination: 1. 1-mil drawdown of wet film No bubbles, pits, voids, Passed particles, color differences. **Passed** 2. Wet film drawdown on No bubbles, pits, voids, Γď grind gauge particles, color differences. **SCREENABILITY** Passed Гď Visual inspection of screen No surface defects. printed panel such as bubbles, pinholes, etc. **TACK-DRY** Passed ΓY Hot air convection oven Tack-free to the touch 80°C / 30 minutes 11 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 11 - 15 500 m.l / 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 Immersion in PM Acetate **Passed** No swelling, softening, **RESISTANCE** (*) 20°C / 30 mins. or blistering 8 H PENCIL HARDNESS (*) TAI-0-0020 7H or greater **ADHESION (*)** Passed 4 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:

(1.C. SUPSEVISOR 4/8/2/

Name, Title, Date