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).

Mfg. Date: 6-04-19Warranty Ends: 6-04-20Lot# 9060457 **PSR-4000BN (DG)** MANUFACTURING **PROPERTY TEST METHOD SPECIFICATION** VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 325 - 375 ps 5 rpms @ 25°C After mixing: 175 - 225 ps THIXOTROPIC INDEX Toki Sangvo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.2 - 1.6 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 grind gauge particles, color differences. **SCREENABILITY** Visual inspection of screen **Passed** 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** 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** Immersion in PM Acetate **Passed** No swelling, softening, **RESISTANCE** (*) 20°C / 30 mins. or blistering 9 H PENCIL HARDNESS (*) TAI-0-0020 7H or greater **ADHESION** (*)

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

TAI-0-0021

Verified By:

Passed

W.

100/100 on copper

FRM-0-0023