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-4000BV).

Mfg. Date: 10 - 15 - 21Warranty Ends: 5 - 15 - 22PSR-4000 (AUS5) Lot# 1101537 **MANUFACTURING PROPERTY TEST METHOD SPECIFICATION** VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 300 - 360 ps 226 5 rpms @ 25°C After mixing: 200 - 240 ps DS THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer 1.3 Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.0 - 1.4 **FINENESS OF GRIND** TAI-0-0002 15 microns maximum microns VISUAL EXAMINATION Microscopic examination: 1. 1-mil drawdown of wet film No bubbles, pits, voids, Passed 12 particles, color differences. 2. Wet film drawdown on **Passed** No bubbles, pits, voids, W 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 Tack-free to the touch Passed W 80°C / 30 minutes 10 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 9-12 500 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 No discoloration, peeling, Passed U **SOLDERING** (*) Rosin-based flux or blistering SOLVENT Immersion in PM Acetate Passed TV No swelling, softening, **RESISTANCE (*)** 20°C / 30 mins. or blistering 8 H PENCIL HARDNESS (*) TAI-0-0020 5H or greater **ADHESION (*)** TAI-0-0021 **Passed** 100/100 on copper M

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

Verified By:

When the first same (6/22/21)

Name, Title, Date