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-4000JA).

Mfg. Date: 5-09-19 Warranty Ends: 11-09-19 Lot# 9050917 **PSR-4000 LDI (US)** MANUFACTURING **PROPERTY TEST METHOD SPECIFICATION** RESULT VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: Report Only 5 rpms @ 25°C After mixing: 220 - 270 ps 250 THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: Report Only FINENESS OF GRIND TAI-0-0002 5 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 Passed No bubbles, pits, voids, 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 80°C/30 minutes **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 12 - 16 100 m.J / cm² (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi RESISTANCE TO 260°C (500°F) / 30 sec x 1 cycle No discoloration, peeling, Passed **SOLDERING** (*) Rosin-based flux or blistering **SOLVENT** Immersion in PM Acetate Passed No swelling, softening, **RESISTANCE** (*) 20°C / 20 mins. or blistering PENCIL HARDNESS (*) TAI-0-0020 6H or greater ADHESION (*) TAI-0-0021 100/100 on copper Passed

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

Verified By:

A.C. Supervisor 5/15/19

Name, Title, Date