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-4000JA).

Mfg. Date: 5-15-19 Warranty Ends: 11-15-19 Lot # 9051517 PSR-4000 LDI (US) Clear **MANUFACTURING PROPERTY** TEST METHOD SPECIFICATION VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: Report Only 5 rpms @ 25°C After mixing: 220 - 270 ps .251 THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: Report Only FINENESS OF GRIND TAI-0-0002 microns 5 microns maximum 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 Passed Visual inspection of screen No surface defects. printed panel such as bubbles, pinholes, etc. TACK-DRY Passed . Hot air convection oven Tack-free to the touch 80°C/30 minutes **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 12 - 16 100 mJ/cm^2 (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 Passed No discoloration, peeling, **SOLDERING** (*) Rosin-based flux or blistering **SOLVENT** Immersion in PM Acetate No swelling, softening, Passed RESISTANCE (*) 20°C / 20 mins. or blistering & H PENCIL HARDNESS (*) TAI-0-0020 6H or greater ADHESION (*) TAI-0-0021 Passed 100/100 on copper

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

Verified By:

Name, Title, Date

FRM-0-0206