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: 12-29-20 Lot # 0122917 PSR-4000BN Yellow Warranty Ends: 12-29-21 MANUFACTURING **PROPERTY TEST METHOD SPECIFICATION** RESULT VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 325 - 375 ps 5 rpms @ 25°C 212 ps After mixing: 175 - 225 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.2 - 1.6 FINENESS OF GRIND TAI-0-0002 microns 15 microns maximum VISUAL EXAMINATION Microscopic examination: **Passed** 1. 1-mil drawdown of wet film No bubbles, pits, voids, 0 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** Hot air convection oven Passed Tack-free to the touch 80°C / 30 minutes **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 9 - 13 400 mJ/cm² (under artwork) (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 (*) Passed** 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:

Verified By:

Name, Title, Date

FRM-0-0054

10/14/11