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).

Lot# 1011337 Mfg. Date: 1 - 13 - 21**PSR-4000BN (DG)** Warranty Ends: 1-13-22 MANUFACTURING **PROPERTY TEST METHOD SPECIFICATION** RESULT VISCOSITY Toki Sangvo RE100U Viscometer Before mixing: 325 - 375 ps DS 5 rpms @ 25°C 208 ps After mixing: 175 - 225 ps THIXOTROPIC INDEX Toki Sangvo RE100U Viscometer 1.4 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: 1. 1-mil drawdown of wet film No bubbles, pits, voids, Passed ୮¥ particles, color differences. 2. Wet film drawdown on No bubbles, pits, voids, **Passed** grind gauge partieles, color differences. SCREENABILITY Visual inspection of screen No surface defects, **Passed** printed panel such as bubbles, pinholes, etc. TACK-DRY Hot air convection oven Tack-free to the touch Passed [q 80°C/30 minutes **IMAGING** 10 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 No discoloration, peeling, Passed TV. **SOLDERING** (*) Rosin-based flux or blistering **SOLVENT** Immersion in PM Acetate No swelling, softening, **Passed** RESISTANCE (*) 20°C / 30 mins. or blistering PENCIL HARDNESS (*) TAI-0-0020 7H 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:

The C.C. Supervisor 1/18/21

Name, Title, Date

FRM-0-0023