TAIYO AMERICA, INC.

2675 Antler Drive, Carson City, NV 89701 Phone: (775) 885-9959 Fax: (775) 885-9972

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-4000MP).

Lot # 1012227 Mfg. Date: 1-22-21 PSR-4000MP Warranty Ends: 1-22-22 **MANUFACTURING PROPERTY TEST METHOD SPECIFICATION** RESULT VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: 350 - 400 ps 380 ps 5 rpms @ 25°C 163 ps After mixing: 140 - 180 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer 1.4 Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.2 - 1.6 15 FINENESS OF GRIND microns TA1-0-0002 20 microns maximum VISUAL EXAMINATION Microscopic examination: **Passed** 1. 1-mil drawdown of wet film No bubbles, pits, voids, M particles, color differences. 2. Wet film drawdown on No bubbles, pits, voids, **Passed** grind gauge particles, color differences. **SCREENABILITY** u **Passed** Visual inspection of screen No surface defects, printed panel such as bubbles, pinholes, etc. TACK-DRY **Passed** 77 Hot air convection oven Tack-free to the touch 80°C/30 minutes 9 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 8 - 12 300 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 Passed No discoloration, peeling, **SOLDERING (*)** Rosin-based flux or blistering SOLVENT **Passed** Immersion in PM Acetate No swelling, softening, **RESISTANCE (*)** 20°C / 30 mins. or blistering 9 H PENCIL HARDNESS (*) TA1-0-0020 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:			
A.	G.C.	Supervision	1/26/21
Name,	Title,		Date