## 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.

Lot# 9120647 Mfg. Date: 12-06-19 **PSR-4000 LEW1 (US)** Warranty Ends: 9-06-20 **MANUFACTURING PROPERTY TEST METHOD SPECIFICATION** RESULT VISCOSITY Toki Sangvo RE100U Viscometer 157 ps 5 rpms @ 25°C After mixing: 145 - 175 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: 1.0 - 1.2 5 FINENESS OF GRIND microns TAI-0-0002 15 microns maximum VISUAL EXAMINATION Microscopic examination: Passed 1. 1-mil drawdown of wet film No bubbles, pits, voids, particles, color differences. **Passed** 2. Wet film drawdown on 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 10 **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: Report Only 600 mJ / cm<sup>2</sup> (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 90 secs., 28 psi RESISTANCE TO 260°C (500°F) / 30 sec x 1cycle **Passed** No discoloration, peeling, **SOLDERING** (\*) Rosin-based flux or blistering **SOLVENT Passed** Immersion in PM Acetate No swelling, softening, **RESISTANCE** (\*) 20°C / 20 mins. or blistering BH PENCIL HARDNESS (\*) TAI-0-0020 5H 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:	Q.C.	Supervi	sor	12/11/19
Name,	Title,		Date	;