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-4000BN).

Mfg. Date: 4-08-19 Lot# 9040827 PSR-4000BN Blue Warranty Ends: 4-08-20 MANUFACTURING RESULT **SPECIFICATION TEST METHOD PROPERTY** Before mixing: 325 - 375 ps VISCOSITY Toki Sangyo RE100U Viscometer ps After mixing: 175 - 225 ps 5 rpms @ 25°C THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer After mixing: 1.2 - 1.6 Viscosity ratio: 5 rpm / 50 rpm microns FINENESS OF GRIND 15 microns maximum TAI-0-0002 VISUAL EXAMINATION Microscopic examination: Passed No bubbles, pits, voids, 1. 1-mil drawdown of wet film particles, color differences. Passed No bubbles, pits, voids, 2. Wet film drawdown on particles, color differences. grind gauge **Passed SCREENABILITY** No surface defects. Visual inspection of screen such as bubbles, pinholes, etc. printed panel **Passed TACK-DRY** Tack-free to the touch Hot air convection oven 80°C/30 minutes **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 9 - 13 500 mJ / cm (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi **Passed RESISTANCE TO** 260°C (500°F) / 10 sec x 3 cycles No discoloration, peeling, or blistering **SOLDERING** (*) Rosin-based flux Passed **SOLVENT** Immersion in PM Acetate No swelling, softening, **RESISTANCE** (*) 20°C / 30 mins. or blistering PENCIL HARDNESS (*) TAI-0-0020 7H or greater Passed **ADHESION** (*) 100/100 on copper TAI-0-0021

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

Verified By:

A.C. SUPSAVISOR 4/12/19

Name, Title, Date

FRM-0-0022

10/14/11