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-4000JA).

Lot # 9032717 PSR-4000 LDI (US) Black Mfg. Date: 3-27-19 Warranty Ends: 9-27-19 **MANUFACTURING PROPERTY** TEST METHOD **SPECIFICATION** VISCOSITY Toki Sangyo RE100U Viscometer Before mixing: Report Only 427 5 rpms @ 25°C After mixing: 220 - 270 ps 239 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer 1.4 Viscosity ratio: 5 rpm / 50 rpm After mixing: Report Only FINENESS OF GRIND TAI-0-0002 5 microns maximum microns VISUAL EXAMINATION Microscopic examination: 1. 1-mil drawdown of wet film No bubbles, pits, voids, Passed 0 particles, color differences. 2. Wet film drawdown on No bubbles, pits, voids, **Passed** grind gauge particles, 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 -80°C/30 minutes **IMAGING** ORC HMW 680GW - 7 kW Stouffer 21 step: 12 - 16 100 mJ / cm² (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi RESISTANCE TO 260°C (500°F) / 30 sec x 1 cycle No discoloration, peeling, Passed V SOLDERING (*) Rosin-based flux or blistering SOLVENT Immersion in PM Acetate No swelling, softening, Passed RESISTANCE (*) 20°C / 20 mins. or blistering PENCIL HARDNESS (*) TAI-0-0020. 6H or greater ADHESION (*) TAI-0-0021 100/100 on copper Passed WARRANTY EXTENSION This product has been (*) - Final cure @ 150 °C (302 °F) in a convection oven retested by the Taiyo America Quality Control department and has been granted Verified By: a warranty extension. O.C. SUPSRVISOR 3/29/19 Warranty period ends: 10/27/19

01/04/12

FRM-0-0202

Authorized By:

Luis Marquez QC Supervisor