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).

PSR-4000BN (DG) DI	Lot# 1011307	Mfg. Date: 1~13 - 2 Warranty Ends: 1-12	3-22
<u>PROPERTY</u> VISCOSITY	TEST METHOD Toki Sangyo RE100U Viscometer	MANUFACTURING SPECIFICATION	<u>RESULT</u>
THIXOTROPIC INDEX	5 rpms @ 25°C Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 175 - 225 ps After mixing: 1.2 - 1.6	206 ps 1.4
FINENESS OF GRIND	TAI-0-0002	15 microns maximum	5 microns
VISUAL EXAMINATION	Microscopic examination: 1. 1-mil drawdown of wet film	No bubbles, pits, voids,	Passed 🗹
	2. Wet film drawdown on grind gauge	particles, color differences. No bubbles, pits, voids, particles, color differences.	Passed 🖌
SCREENABILITY	Visual inspection of screen printed panel	No surface defects, such as bubbles, pinholes, etc.	Passed 🗹
TACK-DRY	Hot air convection oven 80°C / 30 minutcs	Tack-free to the touch	Passed 📝
IMAGING	ORC HMW 680GW - 7 kW 500 mJ / cm ² Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi	Stouffer 21 step: 11 - 15 (clear on copper)	13
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 10 sec x 3 cycles Rosin-based flux	No discoloration, peeling, or blistering	Passed 7
SOLVENT RESISTANCE (*)	Immersion in PM Acetate 20 [°] C / 30 mins.	No swelling, softening, or blistering	Passed
PENCIL HARDNESS (*)	TA1-0-0020	7H or greater	84
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed 🗹

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

Verified By: Title, Date Name.