## TAIYO AMERICA, INC.

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## **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.

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PSR-4000 SW01TA	Lot# 1060917	Mfg. Date: 6-09-2 Warranty Ends: 6-09	-22
PROPERTY VISCOSITY	TEST METHOD  Toki Sangyo RE100U Viscometer	MANUFACTURING SPECIFICATION	RESULT
	5 rpms @ 25°C	After mixing: 145 - 175 ps	187 ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 1.0 - 1.2	1.2
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, particles, color differences.	Passed 🗹
	2. Wet film drawdown on grind gauge	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 minutes	Tack-free to the touch	Passed 🗹
IMAGING	ORC HMW 680GW - 7 kW 600 mJ / cm <sup>2</sup>	Stouffer 21 step: Report Only (clear on copper)	8
	Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi		
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 10 sec x 3 cycles Rosin-based flux	No discoloration, peeling, or blistering	Passed 🗹
SOLVENT	Immersion in PM Acetate	No swelling, softening,	Passed
RESISTANCE (*)	20°C / 20 mins.	or blistering	7
PENCIL HARDNESS (*)	TA1-0-0020	5H or greater	7 11 .
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed 🗹

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

Verified I	By:		
Aff.	Q.C.	Supervisor	6/15/21
Name,		Γitle,	Date

FRM-0-0222