## 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.

PSR-4000 H855	Lot# 1051017	Mgf. Date: 5-10-21 Warranty Ends: 11-10-	21	
PROPERTY VISCOSITY	TEST METHOD  Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	MANUFACTURING  SPECIFICATION  Before mixing: 160 – 200 ps  After mixing: 105 - 135 ps	RESUI 163 130	<u>T</u> ps ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	Before mixing: 1.0 - 1.4 After mixing: 1.0 - 1.4	1.2	
FINENESS OF GRIND	TAI-0-0002	15 microns maximum	5 m	nicrons
VISUAL EXAMINATION	Microscopic examination: 1. 1-mil drawdown of wet film	No bubbles, pits, voids, particles, color differences.	Passed	ď
	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	W.
TACK-DRY	Hot air convection oven	Tack-free to the touch	Passed	<b>☑</b>
IMAGING	ORC HMW 680GW - 7 kW 150 mJ / cm <sup>2</sup> (Under Artwork) Horizontal Developer - 1% Na2CO3	Stouffer 21 step: 8 - 10 (clear on copper)	9	
RESISTANCE TO SOLDERING (*)	30°C (86°F) / 60 secs., 28 psi 260°C (500°F) / 30 sec x 1 cycle Rosin-based flux	No discoloration, peeling, or blistering	Passed	ď
SOLVENT RESISTANCE (*)	Immersion in PM Acetate 20°C / 20 mins.	No swelling, softening, or blistering	Passed	区
PENCIL HARDNESS (*)	TAI-0-0020	6H or greater	9 14	•
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed	4

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

Verified By:

A.C. SUPERVISOR 6/1/21

Name, Title, Date