## 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-4000MP Red	Lot# 1102247	Mfg. Date: 10-22- Warranty Ends: 10-3	21
PROPERTY VISCOSITY	TEST METHOD  Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	MANUFACTURING SPECIFICATION  Before mixing: 350 - 400 ps  After mixing: 140 - 180 ps	RESULT すみ ps 169 ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 1.2 - 1.6	1,5
FINENESS OF GRIND	TAI-0-0002	20 microns maximum	17.5 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  300 mJ / cm <sup>2</sup> (under artwork)  Horizontal Developer - 1% Na2CO3  30°C (86°F) / 60 secs., 28 psi	Stouffer 21 step: 8 - 12 (clear on copper)	10
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 10 sec x 3 cycles Rosin-based flux	No discoloration, peeling, or blistering	Passed 📝
SOLVENT RESISTANCE (*)	Immersion in PM Acetate 20°C / 30 mins.	No swelling, softening, or blistering	Passed P
PENCIL HARDNESS (*)	TAI-0-0020	7H or greater	1.4.
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 By:

(A. C. Supernison 10/27/21

Name, Title, Date