## 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.

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-4000DE).

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PSR-4000HFX Satin Red	Lot# 9103127	Mfg. Date: 10 - 31 - 1 Warranty Ends: 7 - 31	7 _ 20
PROPERTY VISCOSITY	TEST METHOD  Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	MANUFACTURING SPECIFICATION  Before mixing: Report Only After mixing: 220 - 270 ps	RESULT 645 ps 247 ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: Report Only	1.3
FINENESS OF GRIND	TAI-0-0002	5 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 $80^{\circ}\text{C}/30$ minutes	Tack-free to the touch	Passed V
IMAGING	ORC HMW 680GW - 7 kW 400 mJ / cm <sup>2</sup> Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi	Stouffer 21 step: 8 - 12 (clear on copper)	
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 30 sec x 1 cycle Rosin-based flux	No discoloration, peeling, or blistering	Passed [V
SOLVENT RESISTANCE (*)	Immersion in PM Acetate $20^{\circ}\mathrm{C}$ / 20 mins.	No swelling, softening, or blistering	Passed 9 H
PENCIL HARDNESS (*)	TAI-0-0020	6H or greater	1 17
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed V

(\*) - Final cure for these tests was 60 minutes @  $150^{\circ}$ C ( $302^{\circ}$ F) in a convection oven

Verified/B	y:				
A.		Superv	150R	11/1/19	
Name,	,	Γitle,	]	Date	

FRM-0-0110

10/14/11