## 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).

PSR-4000HFX Satin White DI Lot # 9120987 Mfg. Date: 12-09-19
Warranty Ends: 9-09-20

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		MANUFACTURING	
PROPERTY	TEST METHOD	<b>SPECIFICATION</b>	RESULT
VISCOSITY	Toki Sangyo RE100U Viscometer		
	5 rpms @ 25°C	After mixing: 220 - 270 ps	236 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 [V
TACK-DRY	Hot air convection oven 80°C / 30 minutes	Tack-free to the touch	Passed 🗹
IMAGING	ORC HMW 680GW - 7 kW	Stouffer 21 step: 10 - 14	13
	300 mJ/cm <sup>2</sup> (Under Artwork)	(clear on copper)	
	Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi		
RESISTANCE TO	260°C (500°F) / 30 sec x 1 cycle	No discoloration, peeling,	Passed 🖂
SOLDERING (*)	Rosin-based flux	or blistering	
		3	D1
SOLVENT	Immersion in PM Acetate	No swelling, softening,	Passed
RESISTANCE (*)	20°C / 20 mins.	or blistering	917
PENCIL HARDNESS (*)	TAI-0-0020	6H or greater	917
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

		WISOR 1/15/20
Name,	Title,	Date