## 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-4000BV).			
PSR-4000 (AUS5)	Lot# 9031827	Mfg. Date: 3-18-19 Warranty Ends: 10-16	3-19
PROPERTY VISCOSITY	TEST METHOD  Toki Sangyo RE100U Viscometer  5 rpms @ 25°C	MANUFACTURING SPECIFICATION  Before mixing: 300 - 360 ps  After mixing: 200 - 240 ps	RESULT 3 24 ps 2 3 3 ps
THIXOTROPIC I	NDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 1.0 - 1.4	1,2
FINENESS OF GI	RIND TAI-0-0002	15 microns maximum	5 microns
VISUAL EXAMIN	NATION Microscopic examination:  1. 1-mil drawdown of wet film	No bubbles, pits, voids, particles, color differences.	Passed 2
	2. Wet film drawdown on grind gauge	No bubbles, pits, voids, particles, color differences.	Passed
SCREENABILITY	Y 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 500 mJ / cm <sup>2</sup> Horizontal Developer - 1% Na2CO	Stouffer 21 step: 9 - 12 (clear on copper)	10
RESISTANCE TO SOLDERING (*)	30°C (86°F) / 60 secs., 28 psi 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 [V
PENCIL HARDNI	ESS (*) TAI-0-0020	5H or greater	814
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed 📝
(*) - Final cure: TI re AI C ar a	ARRANTY EXTENSION his product has been is @ 150 etested by the Taiyo merica Quality ontrol department hd has been granted warranty extension.	Verified By:  Name,  Title,	Date
1 KN1-0-0017	11/18/19		10/14/11

11/18/19

Authorized By:

Luis Marquez QC Supervisor