

TAIYO AMERICA, INC.
 2675 Antler Drive, Carson City, NV 89701
 Phone: (775) 885-9959 Fax: (775) 885-9972

CERTIFICATE OF 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-4000JV).

PSR-4000 CC01SE Lot # 9100437 Mfg. Date: 10-04-19
 Warranty Ends: 10-04-20

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
VISCOSITY	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	Before mixing: 300 - 340 ps After mixing: 60 - 100 ps	<u>328</u> ps <u>84</u> ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 1.2 -1.6	<u>1.5</u>
FINENESS OF GRIND	TAI-0-0002	15 microns maximum	<u>5</u> microns
VISUAL EXAMINATION	Microscopic examination:		
	1. 1-mil drawdown of wet film	No bubbles, pits, voids, particles, color differences.	Passed <input checked="" type="checkbox"/>
	2. Wet film drawdown on grind gauge	No bubbles, pits, voids, particles, color differences.	Passed <input checked="" type="checkbox"/>
SCREENABILITY	Visual inspection of screen printed panel	No surface defects, such as bubbles, pinholes, etc.	Passed <input checked="" type="checkbox"/>
TACK-DRY	Hot air convection oven 80°C / 30 minutes	Tack-free to the touch	Passed <input checked="" type="checkbox"/>
IMAGING	ORC HMW 680GW - 7 kW 300 mJ / cm ² (under artwork) Horizontal Developer - 1% Na ₂ CO ₃ 30°C (86°F) / 60 secs., 28 psi	Stouffer 21 step: 8 - 12 (clear on copper)	<u>9</u>
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 30 sec x 1 cycle Rosin-based flux	No discoloration, peeling, or blistering	Passed <input checked="" type="checkbox"/>
SOLVENT RESISTANCE (*)	Immersion in PM Acetate 20°C / 20 mins.	No swelling, softening, or blistering	Passed <input checked="" type="checkbox"/> <u>8H</u>
PENCIL HARDNESS (*)	TAI-0-0020	6H or greater	
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed <input checked="" type="checkbox"/>

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

Verified By: [Signature] Title: P.C. SUPERVISOR Date: 10/9/19