

**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.

PSR-4000 SG100HF      Lot # 0040737      Mfg. Date: 4-07-20  
Warranty Ends: 10-07-20

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
<b>VISCOSITY</b>	Toki Sangyo RE100U Viscometer 5 rpms @ 25° C	Before mixing: 420 - 520 ps After mixing: 160 - 200 ps	<u>423</u> ps <u>183</u> ps
<b>THIXOTROPIC INDEX</b>	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 1.2 - 1.6	<u>1.2</u>
<b>FINENESS OF GRIND</b>	TAI-0-0002	17.5 microns maximum	<u>5</u> microns
<b>VISUAL EXAMINATION</b>	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"/>
<b>SCREENABILITY</b>	Visual inspection of screen printed panel	No surface defects, such as bubbles, pinholes, etc.	Passed <input checked="" type="checkbox"/>
<b>TACK-DRY</b>	Hot air convection oven 80° C / 30 minutes	Tack-free to the touch	Passed <input checked="" type="checkbox"/>
<b>IMAGING</b>	ORC HMW 680GW - 7 kW 200 mJ / cm <sup>2</sup> Horizontal Developer - 1% Na2CO3 30° C (86° F) / 60 secs., 28 psi	Report Only (clear on copper)	<u>10</u>
<b>RESISTANCE TO SOLDERING (*)</b>	260° C (500° F) / 30 sec x 1 cycle Rosin-based flux	No discoloration, peeling, or blistering	Passed <input checked="" type="checkbox"/>
<b>SOLVENT RESISTANCE (*)</b>	Immersion in PM Acetate 20° C / 20 mins.	No swelling, softening, or blistering	Passed <input checked="" type="checkbox"/>
<b>PENCIL HARDNESS (*)</b>	TAI-0-0020	7H or greater	<u>8H</u>
<b>ADHESION (*)</b>	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]  
Name, Title, Date  
Q.C. SUPERVISOR 4/13/20