

**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.

PSR-4000 H855 Lot # 1091717 Mgf. Date: 9-17-21  
 Warranty Ends: 3-17-22

<b>PROPERTY</b>	<b>TEST METHOD</b>	<b>MANUFACTURING SPECIFICATION</b>	<b>RESULT</b>
<b>PROPERTY</b> <b>VISCOUSITY</b>	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	Before mixing: 160 - 200 ps After mixing: 105 - 135 ps	165 ps 123 ps
<b>THIXOTROPIC INDEX</b>	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	Before mixing: 1.0 - 1.4 After mixing: 1.0 - 1.4	1.2 1.2
<b>FINENESS OF GRIND</b>	TAI-0-0002	15 microns maximum	5 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 90°C / 35 minutes	Tack-free to the touch	Passed <input checked="" type="checkbox"/>
<b>IMAGING</b>	ORC HMW 680GW - 7 kW 150 mJ / cm <sup>2</sup> (Under Artwork) Horizontal Developer - 1% Na <sub>2</sub> CO <sub>3</sub> 30°C (86°F) / 60 secs., 28 psi	Stouffer 21 step: 8 - 10 (clear on copper)	9
<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	6H or greater	9H
<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:   
 Name, Title, Date  
 Name: D.C. SUPERVISOR Date: 9/23/21