

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 the requirements of IPC-4781 and the performance requirements of A-A-56032D, Type II-YEL, as it applies to printed circuit boards applications.

PSR-4100 YL (HD) 70/30

Lot # 9091117


Mfg. Date: 9-11-19

Warranty Ends: 6-11-20

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
<u>VISCOSITY</u>	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	Before mixing: Report Only After mixing: 120 - 160 ps	365 ps 145 ps
<u>THIXOTROPIC INDEX</u>	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 1.2 - 1.6	1.4
<u>FINENESS OF GRIND</u>	TAI-0-0002	15 microns maximum	5 microns
<u>VISUAL EXAMINATION</u>	Microscopic examination: 1. 1-mil drawdown of wet film 2. Wet film drawdown on grind gauge	No bubbles, pits, voids, particles, color differences. No bubbles, pits, voids, particles, color differences.	Passed <input checked="" type="checkbox"/> Passed <input checked="" type="checkbox"/>
<u>SCREENABILITY</u>	Visual inspection of screen printed panel	No surface defects, such as bubbles, pinholes, etc.	Passed <input checked="" type="checkbox"/>
<u>TACK-DRY</u>	Hot air convection oven 90°C / 30 minutes	Tack-free to the touch	Passed <input checked="" type="checkbox"/>
<u>IMAGING</u>	ORC HMW 680GW - 7 kW 500 mJ / cm <sup>2</sup> 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)	8
<u>RESISTANCE TO SOLDERING (*)</u>	260°C (500°F) / 10 sec x 3 cycles Rosin-based flux	No discoloration, peeling, or blistering	Passed <input checked="" type="checkbox"/>
<u>SOLVENT RESISTANCE (*)</u>	Immersion in PM Acetate 20°C / 30 mins.	No swelling, softening, or blistering	Passed <input checked="" type="checkbox"/>
<u>PENCIL HARDNESS (*)</u>	TAI-0-0020	7H or greater	9H
<u>ADHESION (*)</u>	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

P.C. SUPERVISOR 9/12/19