

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-4000JA).

PSR-4000 LDI (US) Blue

Lot # 0040727

Mfg. Date: 4-07-20

Warranty Ends: 10-07-20

**PROPERTY**  
**VISCOSITY**

**TEST METHOD**

Toki Sangyo RE100U Viscometer  
 5 rpms @ 25°C

**MANUFACTURING SPECIFICATION**

Before mixing: Report Only  
 After mixing: 220 - 270 ps

**RESULT**

422 ps  
 248 ps

**THIXOTROPIC INDEX**

Toki Sangyo RE100U Viscometer  
 Viscosity ratio: 5 rpm / 50 rpm

After mixing: Report Only

1.4

**FINENESS OF GRIND**

TAI-0-0002

5 microns maximum

5 microns

**VISUAL EXAMINATION**

Microscopic examination:

1. 1-mil drawdown of wet film

No bubbles, pits, voids, particles, color differences.

Passed

2. Wet film drawdown on grind gauge

No bubbles, pits, voids, particles, color differences.

Passed

**SCREENABILITY**

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  
 100 mJ / cm<sup>2</sup>

Stouffer 21 step: 12 - 16  
 (clear on copper)

14

Horizontal Developer - 1% Na2CO3  
 30°C (86°F) / 60 secs., 28 psi

**RESISTANCE TO SOLDERING (\*)**

260°C (500°F) / 30 sec x 1 cycle  
 Rosin-based flux

No discoloration, peeling, or blistering

Passed

**SOLVENT RESISTANCE (\*)**

Immersion in PM Acetate  
 20°C / 20 mins.

No swelling, softening, or blistering

Passed

**PENCIL HARDNESS**

6H or greater

8H

**ADHESION**

**WARRANTY EXTENSION**

This product has been retested by the Taiyo America Quality Control department and has been granted a warranty extension.

100/100 on copper

Passed

(\*) - Final cu

150°C (302°F) in a convection oven

Warranty period ends:

11/07/20

Authorized By:

Luis Marquez  
 QC Supervisor

Verified By:

*[Signature]* Q.C. SUPERVISOR 4/13/20  
 Name, Title, Date