

## 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 FH and FT.

PSR-9000 LDI Green

Lot # 9072517

Mfg. Date: 7-25-19

Warranty Ends: 1-25-20

**PROPERTY**  
**VISCOSITY**

**TEST METHOD**

Toki Sangyo RE100U Viscometer  
 5 rpms @ 25°C

**MANUFACTURING SPECIFICATION**

Before mixing: Report Only  
 After mixing: 140- 200 ps

**RESULT**

276 ps  
 183 ps

**THIXOTROPIC INDEX**

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

After mixing: Report Only

1.2

**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> (Under Artwork)  
 Horizontal Developer - 1% Na<sub>2</sub>CO<sub>3</sub>  
 30°C (86°F) / 60 secs., 28 psi

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

14

**RESISTANCE TO SOLDERING (\*)**

260°C (500°F) / 10 sec x 3 cycles  
 Rosin-based flux

No discoloration, peeling,  
 or blistering

Passed

**SOLVENT RESISTANCE (\*)**

Immersion in PM Acetate  
 20°C / 30 mins.

No swelling, softening,  
 or blistering

Passed

**FLEXIBILITY (\*)**

TAI-0-0025

No cracking

Passed

**PENCIL HARDNESS (\*)**

TAI-0-0020

3H or greater

7H

**ADHESION (\*)**

TAI-0-0021

100/100 on copper

Passed

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

Verified By:

*[Signature]* P.C. SUPERVISOR 7/26/19  
 Name, Title, Date