

**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 CR01MW

Lot # 0070617

Mfg. Date: 7-06-20

Warranty Ends: 1-06-21

PROPERTY  
VISCOSITY

TEST METHOD

MANUFACTURING SPECIFICATION

RESULT

Toki Sangyo RE100U Viscometer  
5 rpms @ 25°C

After mixing: 150 - 200 ps

200 ps

THIXOTROPIC INDEX

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

After mixing: 1.00 - 1.50

1.30

FINENESS OF GRIND

TAI-0-0002

15 Microns or less.

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  
600 mJ / cm<sup>2</sup>  
Horizontal Developer - 1% Na2CO3  
30°C (86°F) / 60 secs., 28 -32 psi.

Stouffer 21 step: Report Only  
(clear on copper)

10

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

PENCIL HARDNESS (\*)

TAI-0-0020

4H or greater

8H

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 7/7/20  
 Name, Title, Date