

TAIYO AMERICA, INC.
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Phone: (775) 885-9959 Fax: (775) 885-9972

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 # 0120417

Mfg. Date: 12-04-20
Warranty Ends: 6-04-21

PROPERTY
VISCOSITY

TEST METHOD

Toki Sangyo RE100U Viscometer
 5 rpms @ 25°C

MANUFACTURING SPECIFICATION

After mixing: 150 - 200 ps

RESULT

186 ps

THIXOTROPIC INDEX

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

After mixing: 1.00 - 1.50

1.27

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 / cm²

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

6H

PENCIL HARDNESS (*)

TAI-0-0020

4H or greater

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

WARRANTY EXTENSION

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

Verified By:

[Signature] **Supervisor 12/7/20**
 Name, Title, Date

Warranty period ends:

07/04/21

Authorized By:

Luis Marquez
 QC Supervisor