

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.

PSR-4000 SG100HF

Lot # **0101237**

Mfg. Date: **10-12-20**

Warranty Ends: **4-12-21**

PROPERTY
VISCOSITY

TEST METHOD

Toki Sangyó RE100U Viscometer
5 rpms @ 25°C

MANUFACTURING SPECIFICATION

Before mixing: 420 - 520 ps
After mixing: 160 - 200 ps

RESULT

435 ps
199 ps

THIXOTROPIC INDEX

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

After mixing: 1.2 - 1.6

1.3

FINENESS OF GRIND

TAI-0-0002

17.5 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
200 mJ / cm²
Horizontal Developer - 1% Na₂CO₃
30°C (86°F) / 60 secs., 28 psi

Report Only
(clear on copper)

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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

9H

PENCIL HARDNESS (*)

TAI-0-0020

7H 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

Verified By:

[Signature] P.C. SUPERVISOR 10/19/20
 Name, Title, Date