

TAIYO AMERICA, INC.
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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 HPG

Lot # 9111537

Mfg. Date: 11-15-19
Warranty Ends: 5-15-20

PROPERTY VISCOSITY

TEST METHOD

Toki Sangyo RE100U Viscometer
5 rpms @ 25°C

MANUFACTURING SPECIFICATION

Before mixing: 205 - 255 ps
After mixing: 135 - 165 ps

RESULT

213 ps
150 ps

THIXOTROPIC INDEX

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

After mixing: 1.2 - 1.8

1.5

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
300 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 ☒

PENCIL HARDNESS (*)

TAI-0-0020

5H 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] Q.C. SUPERVISOR 11/19/19
Name, Title, Date