

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 GEC50

Lot # 0093027

Mfg. Date: 9-30-20

Warranty Ends: 3-30-21

PROPERTY
VISCOSITY

TEST METHOD

Toki Sangyo RE100U Viscometer
5 rpms @ 25°C

MANUFACTURING SPECIFICATION

Before mixing: 250 - 310 ps
After mixing: 150 - 180 ps

RESULT

256 ps
163 ps

THIXOTROPIC INDEX

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

Before mixing: 1.1 - 1.5
After mixing: 1.1 - 1.4

1.3
1.3

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

Report Only
(clear on copper)

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

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

7H or greater

9H

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 10/1/20

Name,

Title,

Date