

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 # 0050547

Mfg. Date: 5-05-20

Warranty Ends: 11-05-20

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

221 ps
 145 ps

THIXOTROPIC INDEX

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

After mixing: 1.2 - 1.8

1.7

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

5H 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:

 Q.C. SUPERVISOR 5/13/20

Name,

Title,

Date