

TAIYO AMERICA, INC.
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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-9000 FLX05W2

Lot # 0120137

Mfg. Date: 12-01-20

Warranty Ends: 6-01-21

PROPERTY
VISCOSITY

TEST METHOD

Toki Sangyo RE100U Viscometer
5 rpms @ 25°C

MANUFACTURING SPECIFICATION

Before mixing: 280 - 340 ps
After mixing: 200 - 240 ps

RESULT

306 ps
218 ps

THIXOTROPIC INDEX

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

Before mixing: 1.00 - 1.40
After mixing: 1.00 - 1.40

1.24
1.22

FINENESS OF GRIND

TAI-0-0002

25 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
500 mJ / cm²

Stouffer 21 step: Report Only
(clear on copper)

12

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

RESISTANCE TO SOLDERING (*)

260°C (500°F) / 5 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

H 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 12/4/20
 Name, Title, Date