

TAIYO AMERICA, INC.  
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Phone: (775) 885-9959 Fax: (775) 885-9972

**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-4000 H855**

**Lot # 0021417**

**Mgf. Date: 2-14-20**

**Warranty Ends: 8-14-20**

**PROPERTY**  
**VISCOSITY**

**TEST METHOD**

Toki Sangyo RE100U Viscometer  
5 rpms @ 25°C

**MANUFACTURING**  
**SPECIFICATION**

Before mixing: 160 - 200 ps  
After mixing: 105 - 135 ps

**RESULT**

169 ps  
121 ps

**THIXOTROPIC INDEX**

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

Before mixing: 1.0 - 1.4  
After mixing: 1.0 - 1.4

1.1  
1.1

**FINENESS OF GRIND**

TAI-0-0002

15 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  
90°C / 35 minutes

Tack-free to the touch

**Passed**

**IMAGING**

ORC HMW 680GW - 7 kW  
150 mJ / cm<sup>2</sup> (Under Artwork)  
Horizontal Developer - 1% Na2CO3  
30°C (86°F) / 60 secs., 28 psi

Stouffer 21 step: 8 - 10  
(clear on copper)

10

**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

6H 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:

J.C. Supervisor 2/25/20  
Name, Title, Date