

**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.

This product meets all the requirements of IPC-SM-840E Classes H and T and Bellcore (Telecordia) GR-78-CORE and is UL recognized 94V-0 (File #E166421, UL Name: PSR-4000HA).

PSR-4000 GP01EU DI

Lot # 0021807

Mfg. Date: 2-18-20

Warranty Ends: 2-18-21

**PROPERTY**  
**VISCOSITY**

**TEST METHOD**

**MANUFACTURING SPECIFICATION**

**RESULT**

Toki Sangyo RE100U Viscometer  
5 rpms @ 25°C

After mixing: 180 - 220 ps

196 ps

**THIXOTROPIC INDEX**

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

After mixing: 1.2 - 1.4

1.3

**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  
80°C / 30 minutes

Tack-free to the touch

Passed

**IMAGING**

ORC HMW 680GW - 7 kW  
300 mJ / cm<sup>2</sup>  
Horizontal Developer - 1% Na<sub>2</sub>CO<sub>3</sub>  
30°C (86°F) / 60 secs., 28- 32 psi

Stouffer 21 step: 8 - 12  
(clear on copper)

11

**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 / 30 mins.

No swelling, softening,  
or blistering

Passed

**PENCIL HARDNESS (\*)**

TAI-0-0020

6H 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:

 P.C. SUPERVISOR 2/26/20

Name, Title, Date