

**TAIYO AMERICA, INC.**  
**2675 Antler Drive, Carson City, NV 89701**  
**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-4000MP Blue**

**Lot #** 010.1617

**Mfg. Date:** 10-16-20

**Warranty Ends:** 10-16-21

**PROPERTY**  
**VISCOSITY**

**TEST METHOD**

Toki Sangyo RE100U Viscometer  
5 rpms @ 25°C

**MANUFACTURING**  
**SPECIFICATION**

Before mixing: 350 - 400 ps  
After mixing: 140 - 180 ps

**RESULT**

369 ps  
177 ps

**THIXOTROPIC INDEX**

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

After mixing: 1.2 - 1.6

1.6

**FINENESS OF GRIND**

TAI-0-0002

20 microns maximum

15 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> (under artwork)

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

Horizontal Developer - 1% Na<sub>2</sub>CO<sub>3</sub>  
30°C (86°F) / 60 secs., 28 psi

9

**RESISTANCE TO**  
**SOLDERING (\*)**

260°C (500°F) / 10 sec x 3 cycles  
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

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]* P.C. SUPERVISOR 10/20/20  
 Name, Title, Date