

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.

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-4000MP).

PSR-4000MP

Lot # 0012117

Mfg. Date: 1-21-20

Warranty Ends: 1-21-21

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

385 ps
 161 ps

THIXOTROPIC INDEX

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

After mixing: 1.2 - 1.6

1.4

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 / cm²

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

9

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

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 1/28/20
 Name, Title, Date