

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-4000BN).

PSR-4000BN (DG)

Lot # 9051717

Mfg. Date: 5-17-19

Warranty Ends: 5-17-20

PROPERTY
VISCOSITY

TEST METHOD

Toki Sangyo RE100U Viscometer
5 rpms @ 25°C

MANUFACTURING
SPECIFICATION

Before mixing: 325 - 375 ps
After mixing: 175 - 225 ps

RESULT

360 ps
198 ps

THIXOTROPIC INDEX

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

After mixing: 1.2 - 1.6

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
500 mJ / cm²

Stouffer 21 step: 9 - 13
(clear on copper)

11

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

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:

J.H. O.C. SUPERVISOR 5/22/19
 Name, Title, Date