

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: S-222NA).

S-222NA (402-LV) Lot # 9081337 Mfg. Date: 8-13-19  
Warranty Ends: 2-13-20

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
<b>VISCOSITY</b>	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C  Brookfield DV-II Viscometer 10 rpms @ RT, spindle #6, 5 mins.	Before mixing: Report Only After mixing: Report Only  After mixing: 47,000 – 57,000 cps	12,900 cps 19,800 cps  51,600 cps
<b>THIXOTROPIC INDEX</b>	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: Report Only	2.4
<b>FINENESS OF GRIND</b>	TAI-0-0002	15 microns maximum	5 microns
<b>VISUAL EXAMINATION</b>	Microscopic examination: 1. 1-mil drawdown of wet film  2. Wet film drawdown on grind gauge	No bubbles, pits, voids, particles, color differences.  No bubbles, pits, voids, particles, color differences.	Passed <input checked="" type="checkbox"/>  Passed <input checked="" type="checkbox"/>
<b>SCREENABILITY</b>	Visual inspection of coated panel	No surface defects, such as bubbles, pinholes, etc.	Passed <input checked="" type="checkbox"/>
<b>RESISTANCE TO SOLDERING (*)</b>	260°C (500°F) / 10 sec x 3 cycles Rosin-based flux	No discoloration, peeling, or blistering	Passed <input checked="" type="checkbox"/>
<b>SOLVENT RESISTANCE (*)</b>	Immersion in PM Acetate 20°C / 30 mins.	No swelling, softening, or blistering	Passed <input checked="" type="checkbox"/>
<b>PENCIL HARDNESS (*)</b>	TAI-0-0020	6H or greater	8H
<b>ADHESION (*)</b>	TAI-0-0021	100/100 on copper	Passed <input checked="" type="checkbox"/>

(\*) - Final cure for these tests was 20 minutes @ 140°C (284°F) in a convection oven

**WARRANTY EXTENSION**  
This product has been retested by the Taiyo America Quality Control department and has been granted a warranty extension.

Verified By: [Signature]  
Name, Title, Date  
Q.C. SUPERVISOR 8/16/19

Warranty period ends:  
03/13/20  
Authorized By:  
Luis Marquez  
QC Supervisor