

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.

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 # 9040817 Mfg. Date: 4-08-19
 Warranty Ends: 10-08-19

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
VISCOSITY	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	Before mixing: Report Only	14,000 cps
	Brookfield DV-II Viscometer 10 rpms @ RT, spindle #6, 5 mins.	After mixing: Report Only	21,700 cps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: 47,000 - 57,000 cps	54,800 cps
		After mixing: Report Only	2.7
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 <input checked="" type="checkbox"/>
	2. Wet film drawdown on grind gauge	No bubbles, pits, voids, particles, color differences.	Passed <input checked="" type="checkbox"/>
SCREENABILITY	Visual inspection of coated panel	No surface defects, such as bubbles, pinholes, etc.	Passed <input checked="" type="checkbox"/>
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 10 sec x 3 cycles Rosin-based flux	No discoloration, peeling, or blistering	Passed <input checked="" type="checkbox"/>
SOLVENT RESISTANCE (*)	Immersion in PM Acetate 20°C / 30 mins.	No swelling, softening, or blistering	Passed <input checked="" type="checkbox"/>
PENCIL HARDNESS (*)	TAI-0-0020	6H or greater	7H
ADHESION (*)	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] P.C. SUPERVISOR 4/11/19
 Name, Title, Date

Warranty period ends:
 12/08/19

Authorized By:
 Luis Marquez
 QC Supervisor