

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 the manufacturing specifications for this product.
 This product meets all the requirements of Belcore GR-78-CORE Issue 1, September 1997 for Legend and Marking Inks.

UVR-182E (USA) Lot # 9032587 Mfg. Date: 3-25-19
 Warranty Ends: 12-25-19

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
VISCOSITY	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	180 - 210 ps	206. ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	1.3 - 2.1	1.3
FINENESS OF GRIND	TAI-0-0002	17.5 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"/>
PENCIL HARDNESS (*)	TAI-0-0020	3H or greater	4H
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed <input checked="" type="checkbox"/>

(*) - UV cure for these tests was 1.0 joules/cm² as measured by a ORC UV-350 radiometer using three high pressure mercury vapor lamps @ 80 W/cm.

Verified By: [Signature]
Q.C. SUPERVISOR 7/24/19
 Name, Title, Date