

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.

UVR-150 TU Red **Lot #** 9100137 **Mfg. Date:** 10-01-19
Warranty Ends: 10-01-20

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>MANUFACTURING SPECIFICATION</u>	<u>RESULT</u>
VISCOSITY	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	120 - 140 ps	136 ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	1.3 - 1.9	1.5
FINENESS OF GRIND	TAI-0-0002	17.5 microns maximum	12.5 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	4H or greater	7H
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed <input checked="" type="checkbox"/>

(*) - UV cure for these test 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]
Name, Title, Date
Q.C. SUPERVISOR 10/1/19