

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-110W (USA) Lot # 9082927 Mfg. Date: 8-29-19
 Warranty Ends: 5-29-20

| <u>PROPERTY</u> | <u>TEST METHOD</u> | <u>MANUFACTURING SPECIFICATION</u> | <u>RESULT</u> |
|---------------------|--|--|--|
| VISCOSITY | Toki Sangyo RE100U Viscometer 5 rpms @ 25°C | 110 - 130 ps | 125 ps |
| THIXOTROPIC INDEX | Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm | 1.5 - 2.5 | 1.7 |
| FINENESS OF GRIND | TAI-0-0002 | 17.5 microns maximum | 7.5 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 | 6H |
| 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.

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 8/30/19

Warranty period ends:
06/29/20

Authorized By:
 Luis Marquez
 QC Supervisor