



RELIABLE ANALYSIS INC.

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REPORT NUMBER 302534-4708
PURCHASE ORDER 21557
TEST DATE 1/19/04-1/28/04
REPORT DATE 1/28/04
TOTAL PAGE(S) NUMBER 1/3

REPORT FOR

Printex LA
12113 Kirkham Rd.
Poway, CA 92064

Attn: Ed Sewa

Work Requested

Perform the following tests on three plaque samples and one bottle of ink sample submitted in accordance with Mil specification A-A-208B and the specified laboratory procedures:

1. Stenciling, stencil brush
 - . Build fixture
 - . Letter approx. 0.75" high, 5 letter
 - on 3" x 6" in enameled steel panels for Type I
 - on fiberboard for type II
 - The ink shall not smear 15 minutes after application
2. Resistance to water
 - . Sample preparations (type I & II)
 - . 4 h in distilled water at 70 °F
 - . 1 hour dry at 70 °C
 - . Evaluation with vigorous rubbing
3. Resistance to Light & Water Spray
 - . Sample preparations (type II)
 - . Apply Ink to Western Red Cedar Panels
 - . 100 h carbon arc at 63 °C
 - . Evaluations



Scope Numbers: 0386-01, 0386-02, 0386-03

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Sample Description

Three (3) sets of plaque samples and one bottle of ink sample, received on January 19, 2004, were identified as:

- 1. Steel panels
- 2. Fiberboard panels
- 3. Red cedar panels
- 4. Ink sample: 9902 EO Black Ink

Work Performed

The samples were conditioned for a minimum of 24 hours at the standard laboratory conditions of 23 ± 2 °C and $50 \pm 5\%$ R.H. prior to testing. The tests were performed in accordance with the above specified laboratory procedures.

Test Results

1. Stenciling

Five letters were stenciled with stencil brush on each steel and fiberboard panels. After 15 minutes, the letters were rubbed lightly with fingers to check for smear.

Requirement: Stenciling shall present legible characters of uniform boldness and general appearance. The ink shall not smear 15 minutes after application at 23 °C when rubbed lightly with fingers.

<u>Sample ID</u>	<u>Evaluation</u>
Steel Panel	Met requirements
Fiberboard	Met requirements

2. Resistance to water

The letters were stenciled. After 1 hour, the letters were immersed in distilled water at 70 °F for 4 hours and air dried for 1 hour.

Requirement: The stenciled lettering shall be legible, retain its characteristics color, not smear with vigorous rubbing, nor crack or peel when tested one hour after stenciling by placing steel panels or fiberboard panels in distilled water at 70 °F for 4 hours and air dried for 1 hour.

<u>Sample ID</u>	<u>Evaluation</u>
Steel Panel	Met requirements
Fiberboard	Met requirements





Test Results (Continued)

3. Resistance to Light & Water Spray

The letters were stenciled on Western Red Cedar Panels. The stenciled panels were then placed in a 63 °C Carbon Arc chamber for 100 h prior to examination for cracking, flaking, eroding, change of color, and legibility.

Requirement: N/A

Sample ID

Evaluation

Western Red Cedar Panels

Specimen 1

No cracking or other detrimental effects

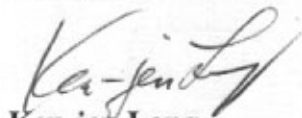
Specimen 2

No cracking or other detrimental effects

Sample Disposition

The tested specimens are being returned with this report for your further evaluation.

Reliable Analysis, Inc.


Ken-jen Lang
President

lucy/net

