



INTERMODAL MATERIÉL  
AND  
NAUTICAL/NUCLEAR ANALYSIS  
**IMANNA**  
LABORATORY INC.

# CERTIFICATION TEST REPORT

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TEST REPORT  
16603-1  
ACCELERATED WEATHERING TEST  
OF  
RUBBER KEYPAD COVERS  
FOR  
DNA GROUP

**CUSTOMER:**

DNA Group, Inc.  
P.O. BOX 31727  
RALEIGH, NC 27622

**MANUFACTURER  
OF TEST ARTICLE:** DNA Group, Inc

**REPORT NO.:** 16603-1  
**IMANNA JOB NO.:** 16603  
**CUSTOMER P.O. NO.:** Verbal (T. Sweet)  
**CONTRACT:** N/A  
**PAGES IN REPORT:** 2

**DATE:** Sept. 10, 2004

**STATE OF FLORIDA**

ROBERT L. WHITE, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

*Robert L. White*

SUBSCRIBED and sworn to before me this 10th day of September, 2004



**David H. Hudgins**  
Commission # DD 010632  
Expires May 3, 2005  
Bonded Thru  
Atlantic Bonding Co., Inc.

*David H. Hudgins*

Imanna shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from Imanna's providing the service covered by the report.

IMANNA LABORATORY, Inc.  
TEST BY  
Alan Bell  
PROJ. MANAGER

1. TEST ARTICLE

Samples of two DNA Group rubber keypad covers were received for test (see photo).

2. PART NUMBER

91M6066-100

91YY5100-1B

3. REQUIREMENTS

The requirements for this effort are to perform a 400 hour UV accelerated weathering exposure test on the supplied samples in accordance with ASTM D4329 cycle A.

4. PROCEDURES

The procedure utilized in the performance of UV aging effort is ASTM D4329. The parts were placed in an accelerated weathering machine and subjected to the following conditions:

8 hours UV-B Light @60°C

4 hours condensate water @50°C

This cycle was repeated continuously during the total test duration of 400 hours.

5. RESULTS OF UV ACCELERATED WEATHERING

No change was seen on either of the tested samples following the test. Areas shielded from the UV on each component were identical with the unshielded areas on each component following the test period. Samples were returned to DNA Group for pass fail evaluations.



Figure 1: view of tested components following exposure