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**PHYSICAL CARD TEST REPORT  
REPORT PRODUCED FOR JOB Q29924  
SET 13**

**TO: AMERICO RODRIGUEZ  
JUNTA CENTRAL ELECTORAL  
AV 27 DE FEBRERO ESQ LUPERON  
ZONA INDUSTRIAL DE HERRERA  
SANTO DOMINGO, 11113  
DOMINICA**

**TEST COMPLETED BY ANDREW VONEIDA September 27, 2013  
REPORT COMPLETED BY TERRY SCHINDLER October 7, 2013**

**Q-CARD Laboratories  
301 Reagan St.  
Sunbury, PA 17801  
570-286-7447  
[www.q-card.com](http://www.q-card.com)**

Q-CARD completed testing of cards received on August 30, 2013, against an order for nine (9) different tests. The cards were received in new condition. Cards were labeled and identified for each test by Q-CARD. All of the data in this test report pertains to the tests that were ordered.

**BLANK WHITE CARDS**

**Test No. 1**  
**CARD TESTING FOR ID-1 CARD FLEXURE**  
 Per ANSI/INCITS 322:2008, Section 5.4

Card ID	Axis	Side of Flex Extension	ANSI 440 Class	Credit Card Durability
Card 8127	B	Front Side Up	D5	Pass

**PRINTED CARDS - BACK**

**Test No. 2**  
**CARD TESTING FOR SURFACE ABRASION**  
 Per ANSI/INCITS 322-2008, Section 5.9

Card ID	Stop Cycles	ANSI 440 CLASS
Card 8127	1250	D5

**Test No. 3**  
**CARD TESTING FOR DELAMINATION CROSS HATCH TAPE**  
 Per ANSI/INCITS 322:2008, Section 5.3

Card ID	Scale Rating	Rating Meaning	
Card 8127	5	No Adhesion	Pass

**Test No. 4**  
**CARD TESTING FOR DAYLIGHT EXPOSURE IMAGE STABILITY-XENON ARC**  
 Per ANSI/INCITS 322:2008, Section 5.16

Card ID	Side Exposed	Observation	Result
Card 8127	Back	Slight Fading	Pass

**PRINTED CARDS - FRONT**

**Test No. 5**  
**CARD TESTING FOR SURFACE ABRASION**  
 Per ANSI/INCITS 322-2008, Section 5.9

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S13P	5000	D5

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**Test No. 6**  
**CARD TESTING FOR DELAMINATION - 90°**  
 Per ANSI/INCITS 322-2008, Section 5.2

Card ID#	P1	Side Front/Back
	Minimum Peel Force 35mm	
Card S13P	Pass	Front

**Test No. 7**  
**CARD TESTING FOR DELAMINATION CROSS HATCH TAPE**  
 Per ANSI/INCITS 322:2008, Section 5.3

Card ID#	Seals Rating	Rating Meaning	
Card S13P	5	No Adhesion	Pass

**Test No. 8**  
**CARD TESTING FOR DAYLIGHT EXPOSURE IMAGE STABILITY-XENON ARC**  
 Per ANSI/INCITS 322:2008, Section 5.16

Card ID#	Side Exposed	Observation	Result
Card S13P	Front	Slight Yellowing	Pass

**Test No. 9**  
**CARD TESTING FOR CORNER IMPACT RESISTANCE**  
 Per ANSI/INCITS 322:2008, Section 5.20

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S13P	N/A	N/A	Fail	Fail	Broke

### **Executive Summary**

Tests that should be reviewed for failure assessment would be mentioned in this summary and all tests that passed 100% of the test requirements are not mentioned here. The test data for each test may be comprehensively reviewed in Annex A of this test report.

Test No. 1, card testing card flexure, indicates that the card body durability category is D5. It is my opinion the card body should be suitable for usage applications with service life up to 10 years.

Test No. 9, card testing for corner impact resistance, indicates that the cards broke on two (2) corner out of two (2) corners impacted. This test was conducted as a sequence following Xenon arc exposure. Xenon arc exposure was applied before corner impact to accelerate the aging of plastic cards. I think this test could indicate that the card body might become brittle with age.

Thank you for using Q-CARD test laboratory services.

Sincerely,

Terry Schindler  
Vice President – Technology Group  
Q-Card Laboratories  
301 Reagan Street  
Sunbury, PA 17801  
570-286-7447 or Mobile 570-847-4011  
[t.schindler@brush-qcard.com](mailto:t.schindler@brush-qcard.com)  
[www.q-card.com](http://www.q-card.com)



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# ANNEX A

## PRINTED DATA ARCHIVE

Customer Name: \_\_\_\_\_

Job #: Q29924-SET13

**Card Testing for ID-1 Card Flexure**

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 7:45 AM  
 Date: 9/16/2013  
 Temperature: 21.9 C  
 Relative Humidity: 48%

Samples Preconditioned:  X  
 Calibration Verified:  X

Valid Until: 2/14

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fractures (mm)	Description of Fracture	ANSI 440 Class
Card S13V	B	Front Side Up	>100,000	N/A	Pass	D5

Job Notes:

Job #: Q29924-SET13

Customer Name: Junta Cental Electoral

### Card Testing for Surface Abrasion (Backside)

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 8:45 AM  
Date: 9/13/2013  
Temperature: 22.3 C  
Relative Humidity: 53%

Card ID#	Brush System	AMSI 440 CLASS
Card B13P	1250	D5

Calibration Verified:  Valid Until: 3/14

Job Notes:

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The test results herein relate only to the items tested.  
The test report shall not be reproduced, except in full, without written approval of Q-Card Laboratories.

Job #: Q29924-SET13

Customer Name: Junta

### Card Testing for Crosshatch Delamination (Backside)

# of Samples Tested: 1  
Technician: CNJ  
Time: 11:30 AM  
Date: 9/16/2013  
Temperature: 22.9 C  
Relative Humidity: 46%

Card ID#	Scale Rating	Rating Meaning
Card B11P	5	No Adhesion Pass

Job Notes:



Job #: Q29924-SET13

**Card Testing for Xenon Arc Test Log (Backside)**

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 7:50 AM  
 Date: 9/24/2013  
 Temperature: 22.1 C  
 Relative Humidity: 44%

Pre-Test Visual Inspection: Pass  
 Post-Test Visual Inspection: Pass

x

Samples Preconditioned

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S13P	No Defects	Card S13P	Slight Fading

Job Notes

Card High Resolution Images Pre/Post  X

.96 W/m2 @ 420 nm  
 168 Hour exposure time.

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Job #: Q29924-SET13 Customer Name: Junta Central Electoral

### Card Testing for Surface Abrasion - Front

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 1:50 PM  
Date: 9/12/2013  
Temperature: 24.2 C  
Relative Humidity: 47%

Calibration Verified:  Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 400 CLASS
Card S13P	5000	D5

Job Notes:

### Card Testing for Peel Strength (Front)

Card ID#	P1	Side
Card #13#	Minimum Peel Force 35N/mm	0.630
		Front

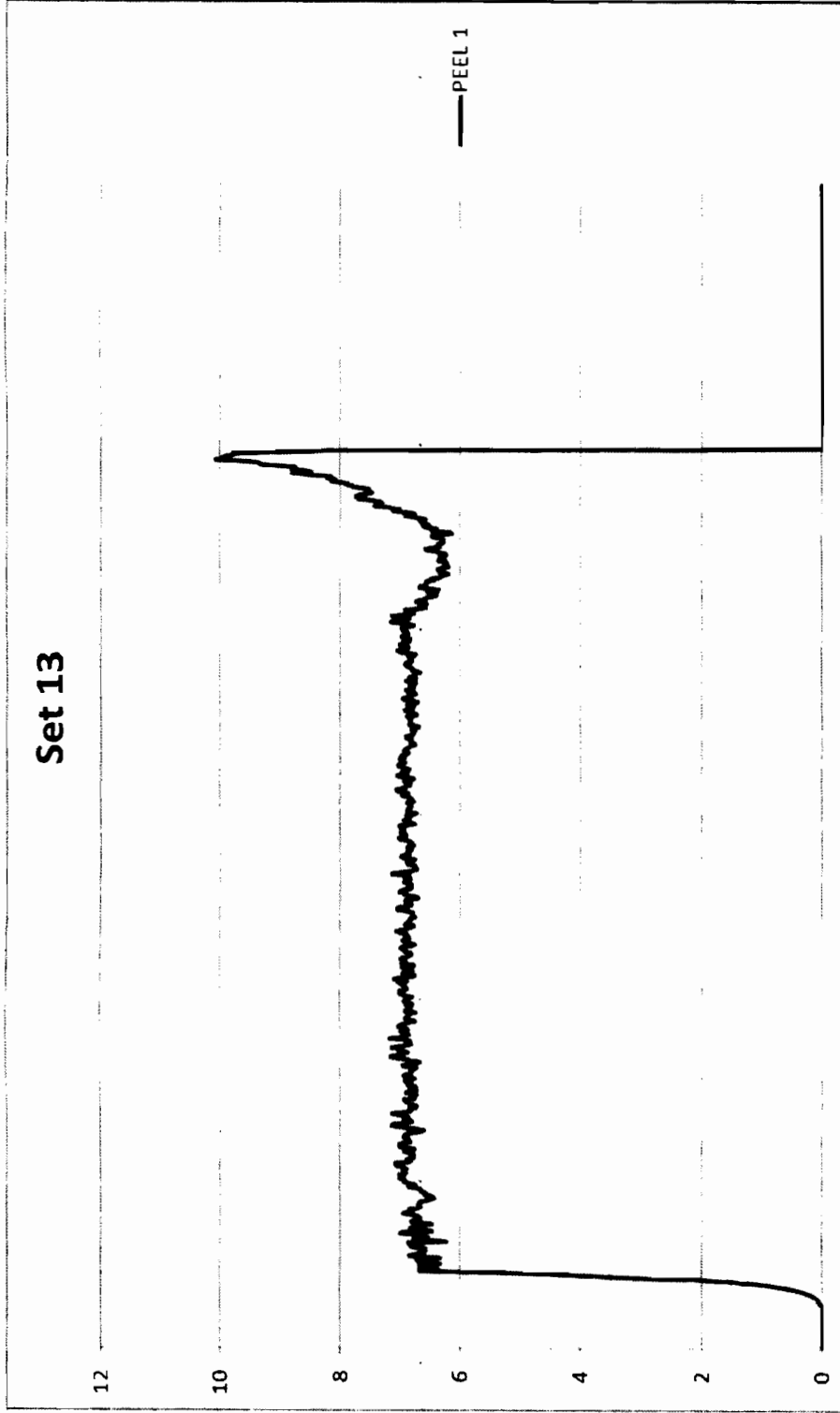
Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 12:30 AM  
Date: 9/17/2013  
Temperature: 22.7 C  
Relative Humidity: 44%  
Calibration Verified:  Valid Until: 6/14  
Samples Preconditioned:

Job Notes:

Strip tore at end

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### Set 13



Job #: Q29924-SET13 Customer Name: Junta

### Card Testing for Crosshatch Delamination (Front)

Card ID#	Scale Rating	Rating Meaning
Card B13P	5	No Adhesion Pass

# of Samples Tested: 1  
Technician: CNJ  
Time: 11:30 AM  
Date: 9/16/2013  
Temperature: 22.9 C  
Relative Humidity: 46%

Job Notes:

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**Card Testing for Xenon Arc Test Log (Frontside)**

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 3:10 PM  
 Date: 10/1/2013  
 Temperature: 24.7 C  
 Relative Humidity: 49%

Pre-Test Visual Inspection:  
Pass

Post-Test Visual Inspection:  
Pass

Samples Preconditioned

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S13P	No Defects	Card S13P	Slight Yellowing

Job Notes  
 Card High Resolution Images Pre/Post   
 .96 W/m2 @ 420 nm  
 168 Hour exposure time.

Job #: Q29924-SET13

Customer Name:

**Card Testing for Corner Impact**

# of Samples Tested: 1  
 Technician: ADV  
 Time: 10:10 AM  
 Date: 10/2/2013  
 Temperature: 22.6 C  
 Relative Humidity: 50%

Samples Preconditioned  X

**Corner Impact Test**

Card Sample of Corners



Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S13P	N/A	N/A	Fail	Fail	Broke

Job Notes:

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