

*Proh/13*

*RM*



PHYSICAL CARD TEST REPORT  
REPORT PRODUCED FOR JOB Q29924  
SET 1  
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)

**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 S1P	5000	D5

**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 .35N/mm	
Card S1P	Pass	Front

**Test No. 7**

**CARD TESTING FOR DELAMINATION CROSS HATCH TAPE**

Per ANSI/INCITS 322:2008, Section 5.3

Card ID#	Scale Rating	Rating Meaning	
Card S1P	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 S1P	Front	No Change	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 S1P	N/A	N/A	Fail	Pass	Delamination

*Handwritten signature and date: 12/19/22*

*Handwritten initials: BM*

*D*  
*10/13*  
*AM*

# ANNEX A

## PRINTED DATA ARCHIVE

Job #: Q29924-SET1 Customer Name: Junta Cental Electoral

### Card Testing for Surface Abrasion (Backside)

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 11:10 AM  
Date: 9/16/2013  
Temperature: 22.4 C  
Relative Humidity: 48%

Calibration Verified:  Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S1P	1250	D5

Job Notes:

*Handwritten signature and initials*

**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

Samples Preconditioned

Card ID#	Pre-Test	Card ID#	Post-Test
	Visual Defects?		Visual Defects?
Card S1P	No Defects	Card S1P	No Defects

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

*[Handwritten signature]*  
 9/24/13

**Card Testing for Peel Strength (Front)**

Card ID#	P1		Side Front/Back
	Minimum Peel Force .35N/mm		
Card 61P	0.498		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:

*[Handwritten Signature]*  
 9/19/13

Job #: Q29924-SET1 Customer Name: Junta

### Card Testing for Crosshatch Delamination (Front)

# 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 S1P	5	No Adhesion Pass

Job Notes:

*[Handwritten Signature]*  
9/19/13

Customer Name: Junta Central Electoral

Job #: Q29924-SET1

Customer Name: Junta Central Electoral

### Card Testing for Corner Impact

#### Corner Impact Test

# of Samples Tested: 1

Technician: ADV

Time: 10:10 AM

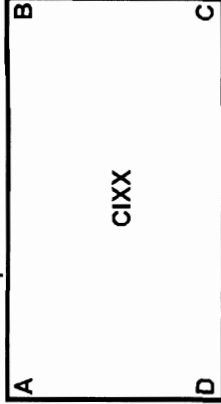
Date: 10/2/2013

Temperature: 22.6 C

Relative Humidity: 50%

Samples Preconditioned

#### Card Sample of Corners



Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card \$1P	N/A	N/A	Fail	Pass	Delamination

Job Notes:

*Handwritten signature and date: 12/19/13*



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 (Three Year Card)
Card S1V	B	Front Side Up	D3	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 S1P	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 S1P	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 S1P	Back	No Change	Pass

### **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 D3. It is my opinion the card body should be suitable for usage applications with service life up to 3 years.

Test No. 9, card testing for corner impact resistance, indicates that the clear protective over laminate on the front of the card delaminated on one (1) 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 bond strength of the clear over laminate could weaken 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)

Job #: Q29924-SET1

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

**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

Job Notes:

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fractures (mm)	Description of Fracture	ANSI 440 Class
Card S1V	B	Front Side Up	36,600	14.76	Center	D3

Job #: Q29924-SET1      Customer Name: Junta

### Card Testing for Crosshatch Delamination (Backside)

Card ID#	Scale Rating	Rating Meaning
Card S1P	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:

Job #: Q29924-SET1

Customer Name: Junta Cental Electoral

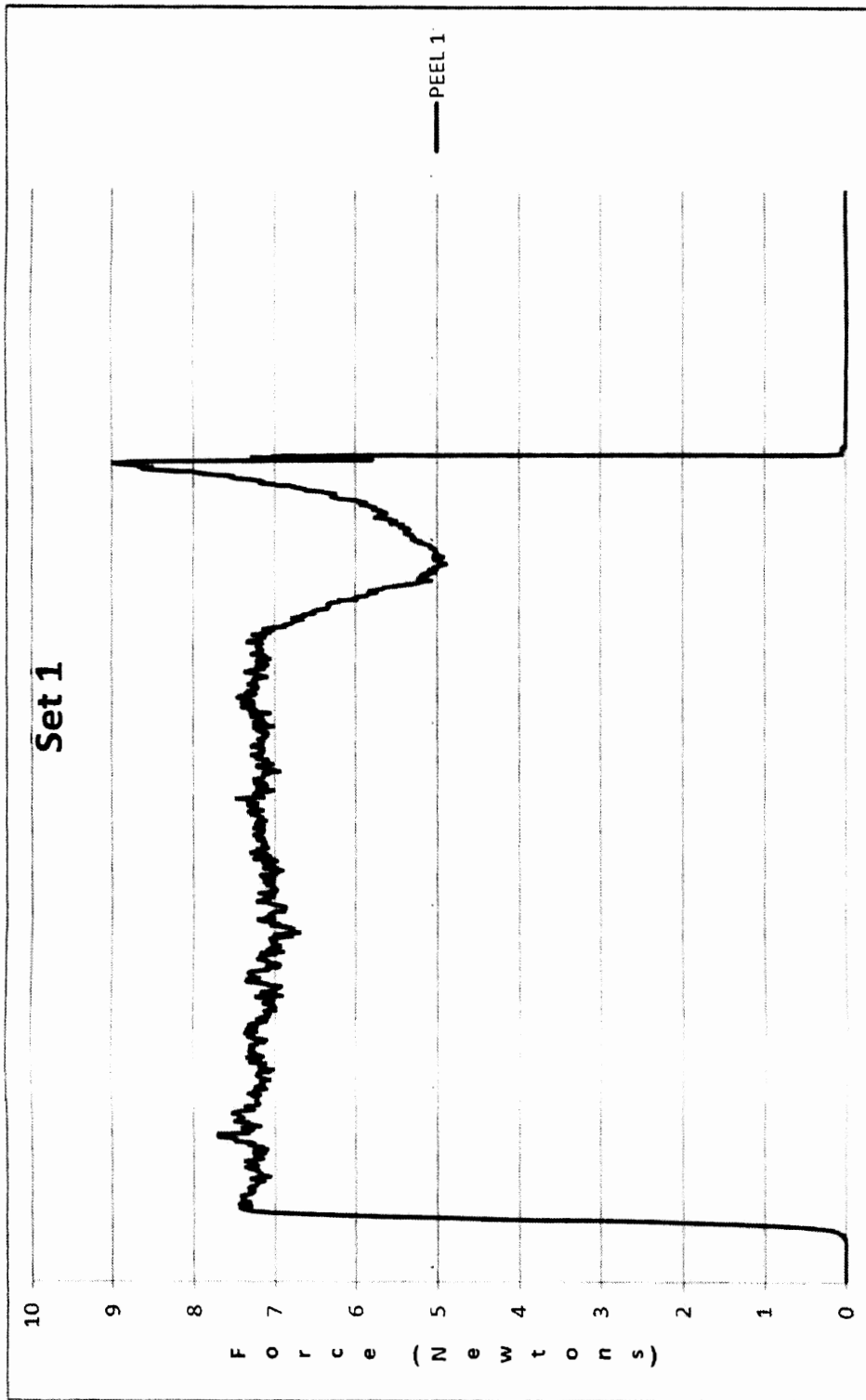
### Card Testing for Surface Abrasion - Front

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 12:45 PM  
Date: 9/10/2013  
Temperature: 24.3 C  
Relative Humidity: 46%

Calibration Verified:  Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 440 CLASS
Card \$1P	5000	D5

Job Notes:



Job #: Q29924-SET1

**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 S1P	No Defects	Card S1P	No Defects

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

**END PAGE**