

*Prohibits*  
*EM*



**PHYSICAL CARD TEST REPORT  
REPORT PRODUCED FOR JOB Q29924  
SET 7**

**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 07P	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 07P	750	D3

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 07P	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 07P	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 D5. It is my opinion the card body should be suitable for card usage applications with service life up to 10 years.

Test No. 2, card testing backside surface abrasion, indicates that the card body durability category is D3. It is my opinion the backside abrasion resistance should be suitable for card usage applications with service life up to 4 years.

Test No. 5, card testing backside surface abrasion, indicates that the card body durability category is D4. It is my opinion the backside abrasion resistance should be suitable for card usage applications with service life up to 7 years.

Test No. 9, card testing for corner impact resistance, indicates that one (1) out of two (2) corners tested have a broken corner on corner impact. 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 becomes 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)

**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 S7P	1000	D4

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 S7P	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 S7P	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 S7P	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 S7P	N/A	N/A	Fail	Pass	Broke

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*Handwritten notes:*  
A large handwritten 'D' with a checkmark is written over the page.  
Below it, the date '11/20/17' is written.  
To the right of the date, there is a signature that appears to be 'JCM'.

# ANNEX A

## PRINTED DATA ARCHIVE

Job #: Q29924-SET7

**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:   
 Calibration Verified:

Valid Until: 2/14

Job Notes:

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fractures (mm)	Description of Fracture	AMS1 440 Class
Card S7V	B	Front Side Up	58,200	15.41	Center	D5

Job #: Q29924-SET7 Customer Name: Junta Cental Electoral

### Card Testing for Surface Abrasion (Backside)

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 1:10 PM  
Date: 9/13/2013  
Temperature: 23.2 C  
Relative Humidity: 46%

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S7P	750	D3

Calibration Verified:  Valid Until: 3/14

Job Notes:

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*[Handwritten date: 9/10/13]*

Revision 2.0  
5/20/2013

Job #: Q29924-SET7

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	Furling Meaning
Card 577	5	No Adhesion Pass

Job Notes:



Job #: Q29924-SET7

Customer Name: Junta Central Electoral

### 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 Visual Defects?	Card ID#	Post-Test Visual Defects?
Card \$7P	No Defects	Card \$7P	No Defects

Job Notes

Card High Resolution Images Pre/Post

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

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Job #: Q29924-SET7 Customer Name: Junta Cental Electoral

### Card Testing for Surface Abrasion

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 12:30 PM  
Date: 9/11/2013  
Temperature: 24.1 C  
Relative Humidity: 46%

Calibration Verified:  Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 410 CLASS
Card S7P	1000	D4

Job Notes:

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.

Card Testing for Peel Strength (Front)

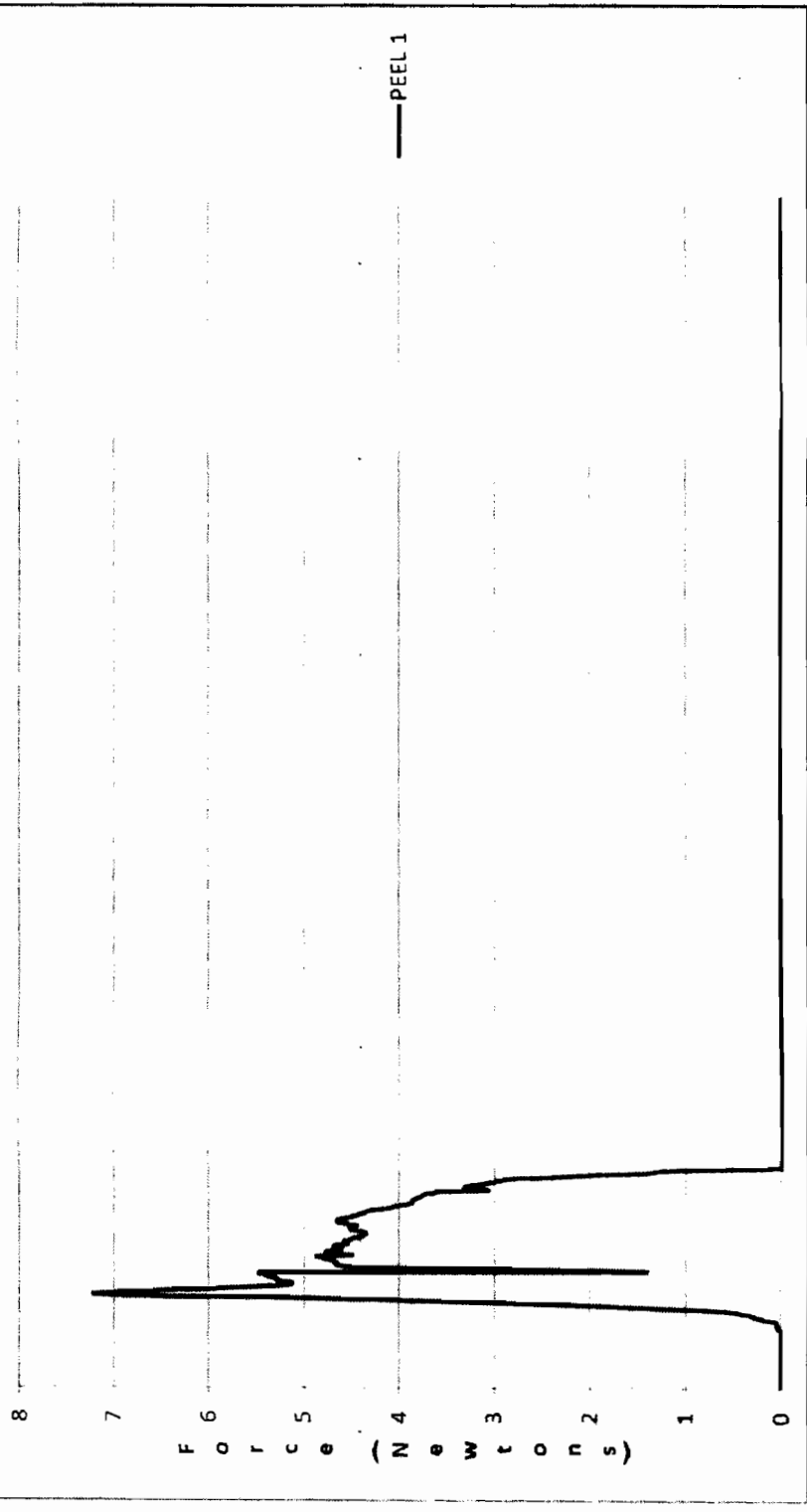
Card ID#	P1	650 Front
Minimum Peel Force	.35N/mm	
Card 57P	0.441	Front

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 broke at start**

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 9/19/13  
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### Set 7



Job #: Q29924-SET7 Customer Name: Junta

### Card Testing for Crosshatch Delamination (Front)

Card ID#	Scale Rating	Rating Meaning
Card S7P	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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*[Handwritten date: 9/16/13]*

Job #: Q29924-SET7

**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 S7P	No Defects	Card S7P	No Defects

Job Notes

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

Job #: Q29924-SET7

Customer Name: Junta Central Electoral

### Card Testing for Corner Impact

#### Corner Impact Test

# of Samples Tested: 1

Technician: ADV

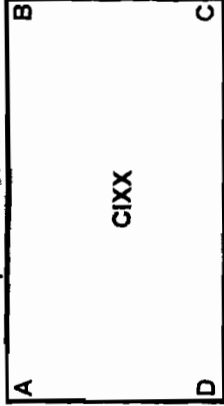
Time: 10:10 AM

Date: 10/2/2013

Temperature: 22.6 C

Relative Humidity: 50%

#### Card Sample of Corners



Samples Preconditioned

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card \$7P	N/A	N/A	Fail	Pass	Broke

Job Notes:

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 [Signature] 10/2/13

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