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10/10/13
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**PHYSICAL CARD TEST REPORT
REPORT PRODUCED FOR JOB Q29924
SET 6**

**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**

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 S6P	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 S6P	1000	D4

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 S6P	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 S6P	Back	No Change	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 S&P	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 S&P	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 S&P	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 S&P	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 S&P	N/A	N/A	Fail	Fail	Broke/Delamination

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K24

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 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 two (2) out of two (2) corners tested have broken layers 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
www.q-card.com

[Handwritten signature and date 10/16/13]

ANNEX A

PRINTED DATA ARCHIVE

Job #: Q29924-SET6

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	ANSI 449 Class
Card S6V	B	Front Side Up	>100,000	N/A	Pass	D5

Job #: Q29924-SET6

Customer Name: Junta Cental Electoral

Card Testing for Surface Abrasion (Backside)

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

Calibration Verified: ☒ Valid Until: 3/14

Card ID#	ANSI 440 CLASS
Card S#	1000
	D4

Job Notes:

1662
JLS

Page 1 of 1

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.

Revision 2.0
5/20/2013

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9/16/13

Job #: Q29924-SET6

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 S&P	5	No Adhesion Pass

Job Notes:

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ANNEX A

PRINTED DATA ARCHIVE

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%

Samples Preconditioned

x

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S6P	No Defects	Card S6P	No Defects

Pre-Test Visual Inspection:

Pass

Post-Test Visual Inspection:

Pass

Job Notes

Card High Resolution Images Pre/Post

x

.96 W/m2 @ 420 nm

168 Hour exposure time.

Job #: Q29924-SET6 Customer Name: Junta Cental Electoral

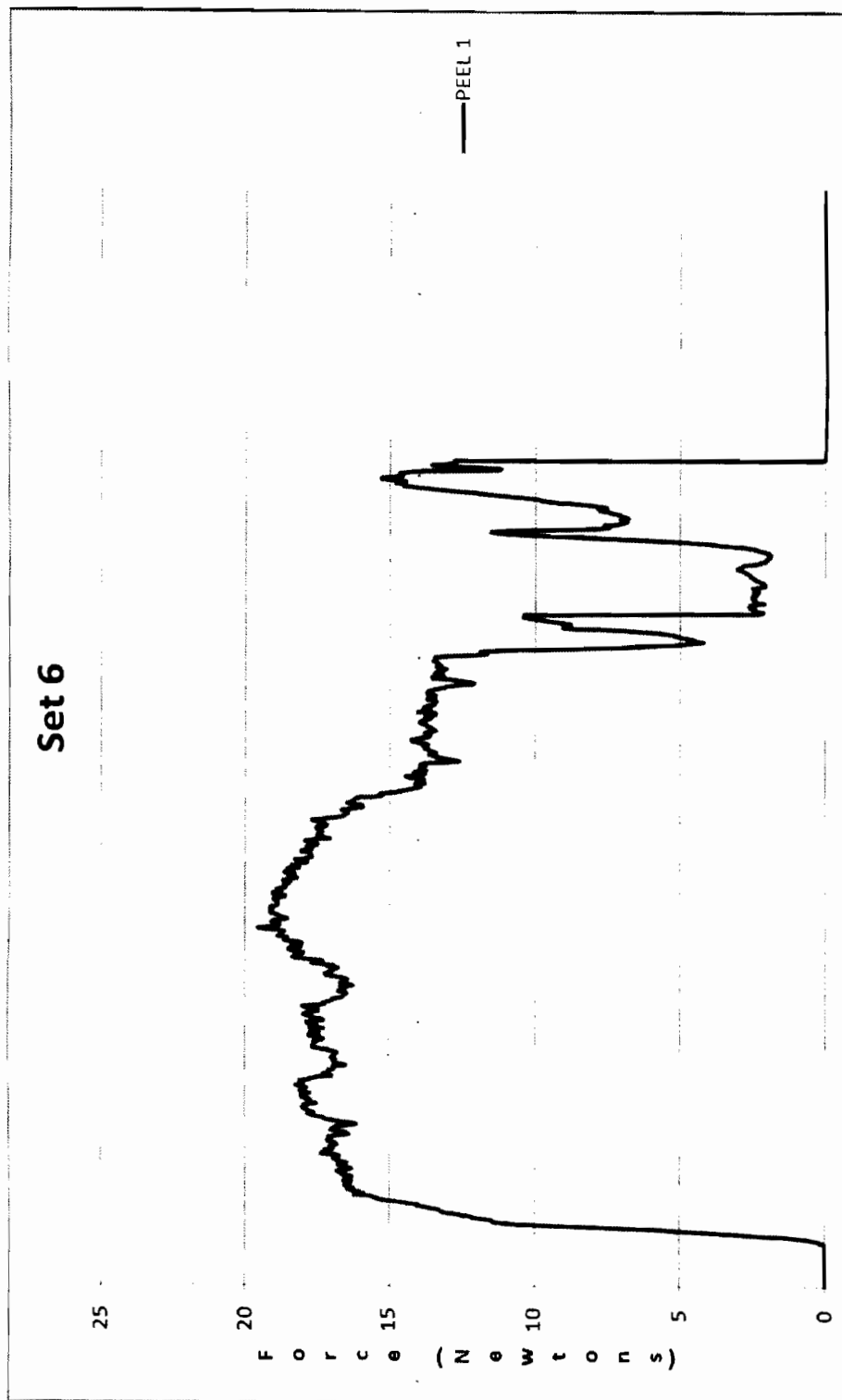
Card Testing for Surface Abrasion - Front

Sampled By: ADV
 # of Samples Tested: 1
 Technician: ADV
 Time: 2:30 PM
 Date: 9/10/2013
 Temperature: 25.1 C
 Relative Humidity: 45%

Calibration Verified: ☒ Valid Until: 3/14

Card ID#	Stop Cycles	ANISI A40 CLASS
Card S&P	5000	D5

Job Notes:



Job #: Q29924-SET6 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 100	5	No Adhesion Pass

Job Notes:

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9/16/2013

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%

Samples Preconditioned

X

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card \$6P	No Defects	Card \$6P	No Defects

Pre-Test Visual Inspection:

Pass

Post-Test Visual Inspection:

Pass

Job Notes

Card High Resolution Images Pre/Post

X

.96 W/m2 @ 420 nm

168 Hour exposure time.

Customer Name:

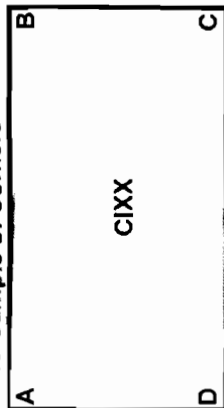
Q29924-SET6

Job #:

Card Testing for Corner Impact

Corner Impact Test

Card Sample of Corners



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

Samples Preconditioned ☒

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S6P	N/A	N/A	Fail	Fail	Broke/Delamination

Job Notes:

10/10/13
 [Signature]

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