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**PHYSICAL CARD TEST REPORT
REPORT PRODUCED FOR JOB Q29924
SET 2**

**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 50P	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 50P	5000	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 50P	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 50P	Back	Slight Yellowing	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 498 CLASS
Card 52P	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 52P	Pass	Front

Test No. 7

CARD TESTING FOR DELAMINATION CROSS HATCH TAPE

Per ANSI/INCITS 322:2008, Section 5.3

Card ID#	Scotch Rating	Rating Meaning	
Card 52P	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 52P	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 52P	N/A	N/A	Fail	Fail	Broke

P. Rodriguez
fm

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. 9, card testing for corner impact resistance, indicates that two (2) out of two (2) corners tested broke 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

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JM

ANNEX A

PRINTED DATA ARCHIVE

Job #: Q29924-SET2

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	Rate of Flex Extension	Cycle to Break	Length of Fracture (mm)	Description of Fracture	ANSI A40 Class
Card S2V	B	Front Side Up	>100,000	N/A	Pass	D5

Job #: Q29924-SET2 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%

Card ID	Step Cycles	ANSI 440 CLASS
Card 32P	5000	D5

Calibration Verified: Valid Until: 3/14

Job Notes:

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 9/20/13

Job #: Q29924-SET2 Customer Name: Junta

Card Testing for Crosshatch Delamination (Backside)

Card ID#	Scale Rating	Rating Meaning
Card 52P	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-SET2

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

X

Samples Preconditioned

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S2P	No Defects	Card S2P	Slight Yellowing

Job Notes

Card High Resolution Images Pre/Post X

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

3/10/13

Job #: Q29924-SET2 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%

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S2P	5000	D5

Calibration Verified: Valid Until: 3/14

Job Notes:

Card Testing for Peel Strength (Front)

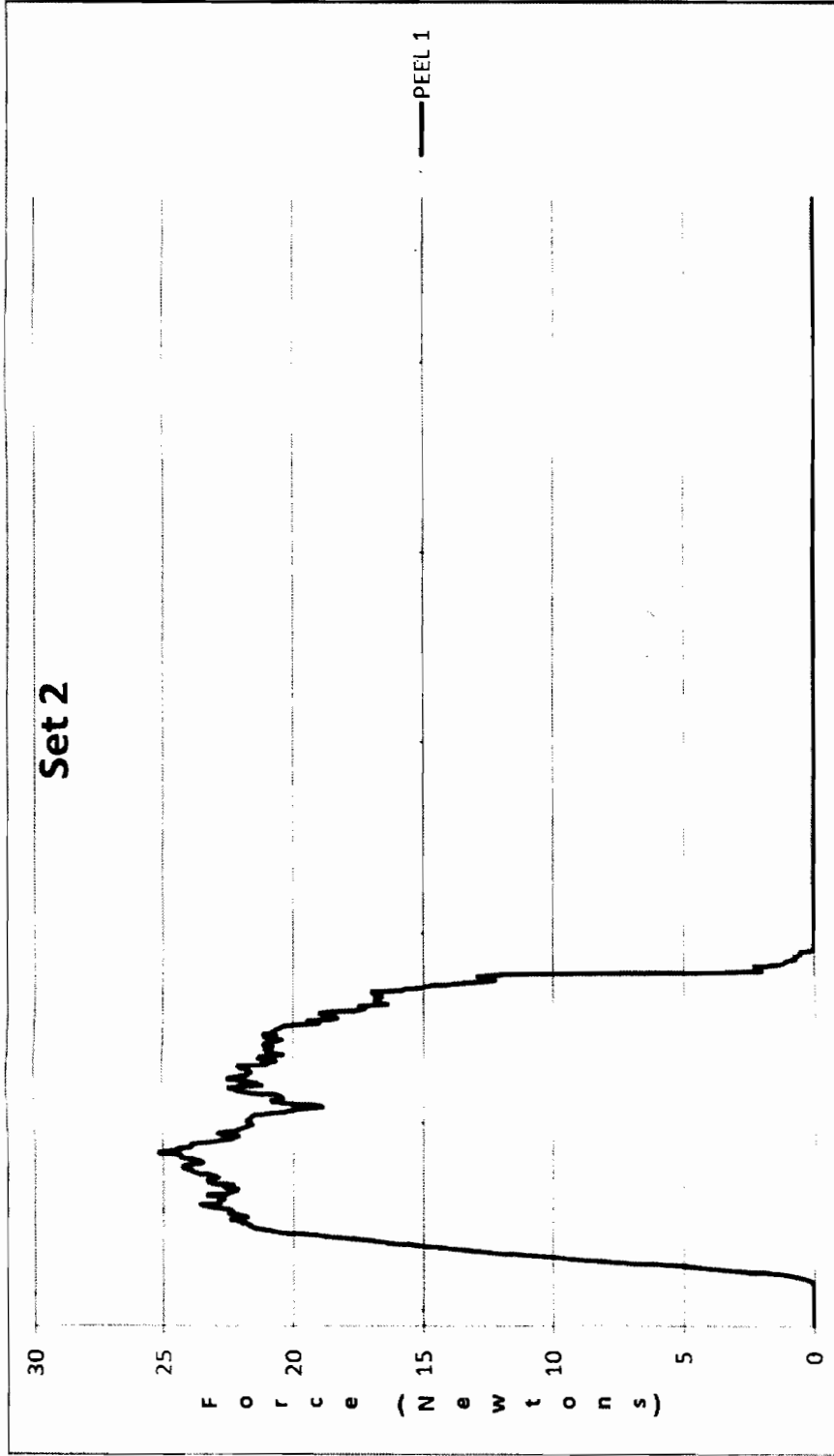
Card ID#	P-1	Min Force	Front
Card Size	Minimum Peel Force 35N/mm	1.913	

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 start

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 9/19/13



Job #: Q29924 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 #22	5	No Adhesion Pass

Job Notes:

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Job #: Q29924-SET2

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 S2P	No Defects	Card S2P	Slight Yellowing

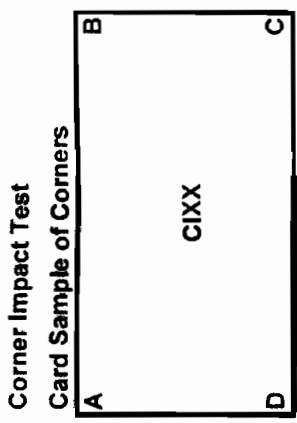
Job Notes

Card High Resolution Images Pre/Post

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

Job #: Q29924-SET2 Customer Name: Junta Central Electoral

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

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S2P	N/A	N/A	Fail	Fail	Broke

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.

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