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PHYSICAL CARD TEST REPORT
REPORT PRODUCED FOR JOB Q29924
SET 12

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 100	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 100	3000	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	Result
Card 100	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 100	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 AISO CLASS
Card 512P	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 30N/mm	
Card 512P	Pass	Front

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

Card ID#	Scale Rating	Rating/Passing	
Card 512P	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 512P	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 512P	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 for ID-1 card flexure, indicates that the card body durability class is D3. It is my opinion that the card body should not be used in card usage application that is longer than 4 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. I think this test supports the brittle card body failure found in test 1.

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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ANNEX A

PRINTED DATA ARCHIVE

Job #: Q29924-SET12

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	Cycles to Break	Length of Fractures (mm)	Description of Fracture	ANSI 440 Class
Card #12V	B	Front Side Up	26,400	>24	Pass	D3

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-SET12

Customer Name: Junta Cental Electoral

Card Testing for Surface Abrasion (Backside)

Sampled By: ADV
 # of Samples Tested: 1
 Technician: ADV
 Time: 10:10 AM
 Date: 9/13/2013
 Temperature: 22.3 C
 Relative Humidity: 49%

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S/DP	3000	D5

Calibration Verified: Valid Until: 3/14

Job Notes:



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Customer Name: Junta

Job #: Q29924-SET12

Card Testing for Crosshatch Delamination (Backside)

Card ID#	Scale Rating	Rating Meaning
Card 812P	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:

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 S12P	No Defects	Card S12P	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-SET12 Customer Name: Junta Cental Electoral

Card Testing for Surface Abrasion - Front

Sampled By: ADV
of Samples Tested: 1
Technician: ADV
Time: 7:05 AM
Date: 9/12/2013
Temperature: 22.5 C
Relative Humidity: 47%

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S1ZP	5000	D5

Calibration Verified: Valid Until: 3/14

Job Notes:

Job #: Q29924-SET12

Card Testing for Peel Strength (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:

Card ID#	P1	State
Card S/ID#	Minimum Peel Force 35N/mm	Front
	N/A	

Job Notes:

No Peel Possible - The strip tears before enough of the layer is exposed to apply tape onto.

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Job #: Q29924-SET12 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 813P	5	No Adhesion Pass

Job Notes:

Job #: Q29924-SET12

Customer Name: Junta Central Electoral

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

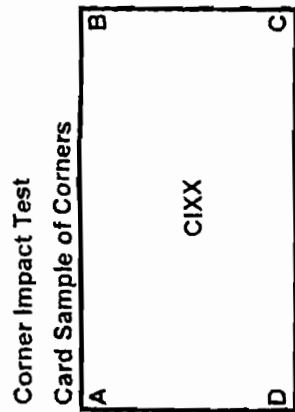
Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S12P	No Defects	Card S12P	Slight Yellowing

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

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Job #: Q29924-SET12 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 S12P	N/A	N/A	Fail	Fail	Broke

Job Notes:

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