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PHYSICAL CARD TEST REPORT
REPORT PRODUCED FOR JOB Q29924
SET 5
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 85V	B	Front Side Up	D1	Fail

PRINTED CARDS - BACK

Test No. 2
CARD TESTING FOR SURFACE ABRASION
Per ANSI/INCITS 322-2008, Section 5.9

Card ID#	Step Cycles	ANSI 440 CLASS
Card 85P	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 85P	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 85P	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 36P	5000	D5

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Signature: [Handwritten Signature]

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 36P	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	
		No Adhesion	Pass
Card 36P	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 36P	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 36P	N/A	N/A	Fail	Fail	Broke/Delamination

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 D1. It is my opinion that the card body should not be used in card usage application that is longer than one year.

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-SET5

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%

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fractures (mm)	Description of Fracture	ANSI 440 Class
Card S5V	B	Front Side Up	5,400	>24	Center	D1

Samples Preconditioned: X
 Calibration Verified: X

Valid Until: 2/14

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.

Job #: Q29924-SET5 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%

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S&P	5000	D5

Calibration Verified: Valid Until: 3/14

Job Notes:

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Card Testing for Crosshatch Delamination (Backside)

Card ID#	Scale Rating	Rating Meaning
Card #6P	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-SET5

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 S#P	No Defects	Card S#P	No Defects

Job Notes

Card High Resolution Images Pre/Post

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

Job #: Q29924-SET5 Customer Name: Junta Cental Electoral

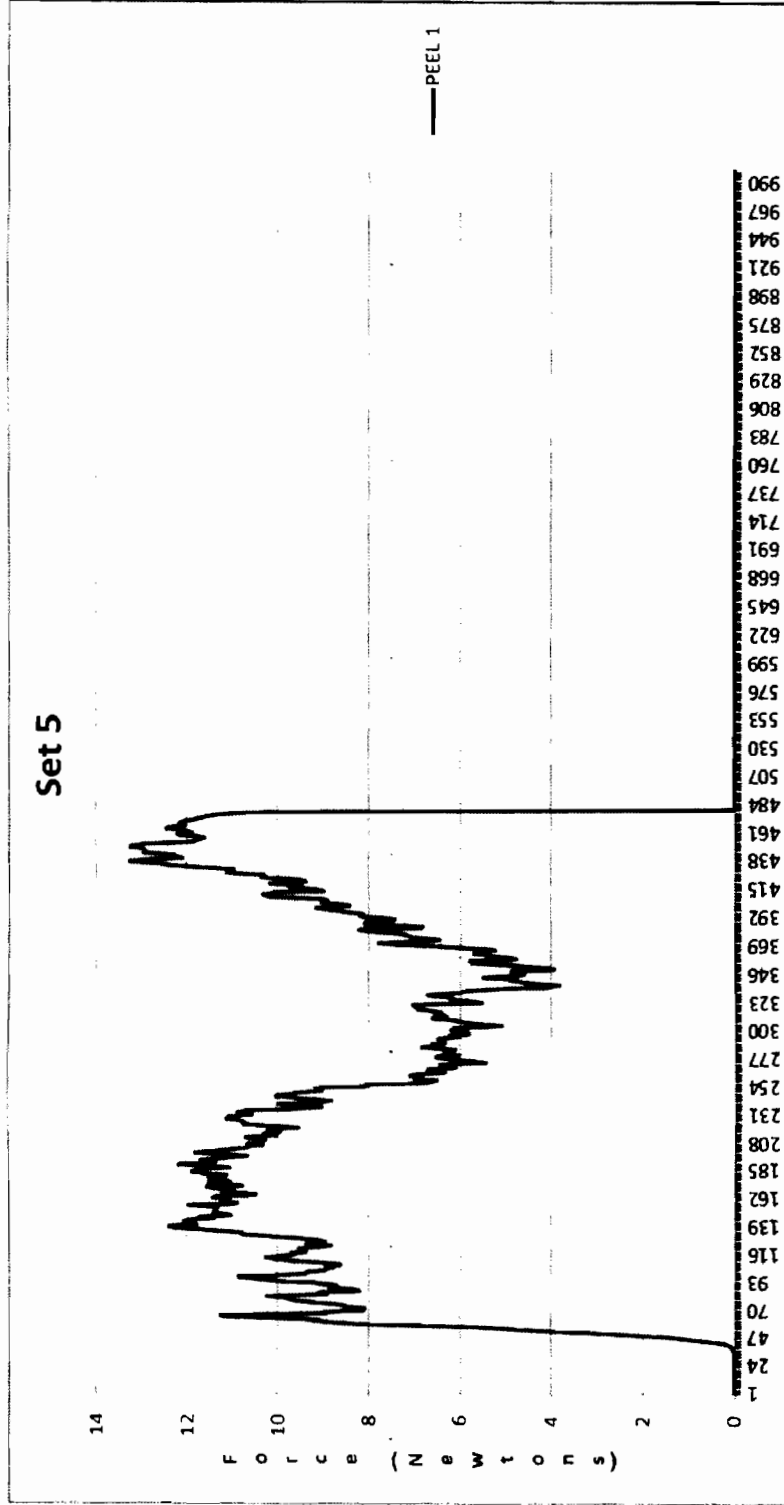
Card Testing for Surface Abrasion - Front

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	ANSI 440 CLASS
Card S#P	5000	D5

Job Notes:



Card Testing for Peel Strength (Front)

Card ID#	P1	Risk
Card SSP	Minimum Peel Force 35N/mm	0.485
		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 end

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Job #: Q29924-SET5 Customer Name: Junta

Card Testing for Crosshatch Delamination (Front)

Card ID#	Scale Rating	Rating Meaning
Card 567	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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9/16/13

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

Job Notes

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

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

Customer Name: Junta Central Electoral

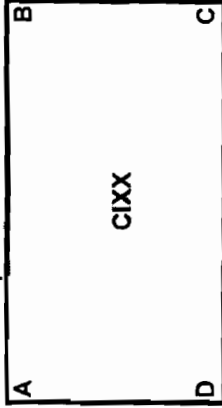
Job #: Q29924-SET5

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 x

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

Job Notes:

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