



PHYSICAL CARD TEST REPORT
REPORT PRODUCED FOR JOB Q29924
SET 9

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

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 S9P	3250	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 S9P	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 S9P	1	Adhesion to Tape	Fail

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 S9P	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 S9P	N/A	N/A	Fail	Fail	Broke/Delamination

Handwritten: 5/19/13
Signature: km

20
10/10/13
by

ANNEX A

PRINTED DATA ARCHIVE

Job #: Q29924-SET9

Customer Name: Junta Cental Electoral

Card Testing for Surface Abrasion (Backside)

Sampled By: ADV
of Samples Tested: 1
Technician: ADV
Time: 12:30 PM
Date: 9/13/2013
Temperature: 22.9 C
Relative Humidity: 45%

Calibration Verified: ☒ Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 440 CLASS
Card 50P	3500	D5

Job Notes:

[Handwritten signature]
[Handwritten date: 9/13/13]

Job #: Q29924-SET9

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 B9P	No Defects	Card S9P	No Defects

Job Notes

☒

Card High Resolution Images Pre/Post

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

km
10/10/13

Job #: Q29924-SET9 Customer Name: Junta Central Electoral

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:

x

 Valid Until: 6/14
Samples Preconditioned:

x

Card ID#	P1 Minimum Peel Force 35N/mm	Side: Front/Back
Card 598	1.356	Front

Job Notes:

Strip broke at start

fm

2/10/13

Job #: Q29924-SET9

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 897	1	Adhesion to Tape Fail

Job Notes:

fu

2/210/19/13

Job #:

Q29924-SET9

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:

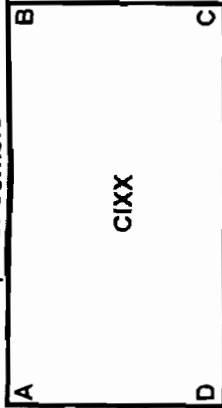
50%

Samples Preconditioned

☒

Corner Impact Test

Card Sample of Corners



Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S9P	N/A	N/A	Fail	Fail	Broke/Delamination

Job Notes:

Handwritten signature and date: 10/2/13

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 500	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 500	3500	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 500	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 500	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. 7, card testing for delamination cross hatch tape (front), indicates that the front clear over laminate has a durability category of D1. It is my opinion that the clear over laminate could peel from the card in card usage applications longer than one year.

Test No. 9, card testing for corner impact resistance, indicates that two (2) out of two (2) corners tested broke and delaminated on the front clear over laminate with 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 and the test could indicate the clear front over laminate adhesion might weaken 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-gcard.com
www.q-card.com

Job #: Q29924-SET9

Customer Name: Junta Central Electoral

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: ☒ x
Calibration Verified: ☒ x

Valid Until: 2/14

Job Notes:

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fractures (mm)	Description of Fracture	ANSI 440 Class
Card S9V	B	Front Side Up	>100,000	N/A	Pass	D5

Job #: Q29924-SET9

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	Rating Meaning
Card 58P	5	No Adhesion Pass

Job Notes:

Job #: Q29924-SET9

Customer Name: Junta Cental Electoral

Card Testing for Surface Abrasion - Front

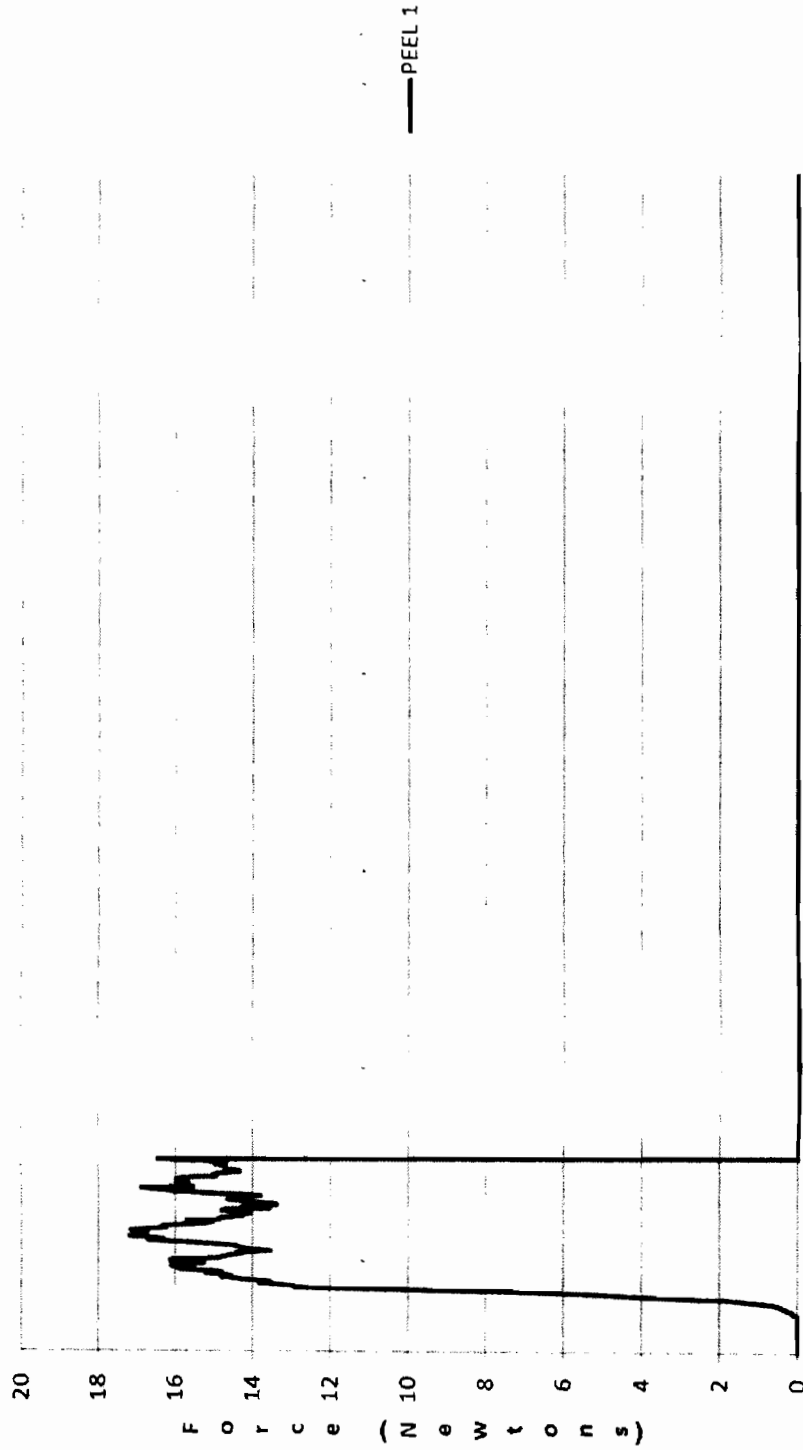
Sampled By: ADV
of Samples Tested: 1
Technician: ADV
Time: 7:05 AM
Date: 9/12/2013
Temperature: 22.5 C
Relative Humidity: 47%

Calibration Verified: ☒ Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S#P	3250	D5

Job Notes:

Set 9



Job #: _____

Q29924-SET9

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

☒ X

Samples Preconditioned

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card 59P	No Defects	Card 59P	No Defects

Job Notes

Card High Resolution Images Pre/Post

☒ X

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

END PAGE