



**Card Testing International Ltd**

**Client Number 8916**

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**Telephone 04 903-4992**

**www.cardtest.com**

**Authorised Representative**

Mr Steve DeDera  
Chief Technology Officer

**Programme**

Mechanical Testing Laboratory

**Accreditation Number 1075**

**Initial Accreditation Date 28 August 2012**

**Conformance Standard**

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

**Laboratory Services Summary**

4.45 Commercial Items

**Key Technical Personnel**

Mr Steve DeDera	4.45
Mr Daniel Passmore	4.45

Operations Manager  
Authorisation:

Issue 18

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Mechanical Testing Laboratory  
**SCOPE OF ACCREDITATION**

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#### 4.45 Commercial Items

##### (a) Card Testing

**The following tests on Identification Cards in accordance with ISO/IEC 10373-1: Test Methods Part 1, General characteristics**

Section 5.1	Card warpage
Section 5.2	Dimension of cards
Section 5.3	Peel strength
Section 5.5	Resistance to chemicals
Section 5.6	Card dimensional stability and warpage with temperature and humidity
Section 5.7	Adhesion or blocking
Section 5.8	Bending stiffness
Section 5.9	Dynamic bending stress
Section 5.10	Dynamic torsional stress
Section 5.11	Opacity
Section 5.14	Resistance to heat
Section 5.15	Surface distortions, raised areas and depressed areas
Section 6.3	Dimensions and locations of contacts for ICCs with contacts
Section 6.5	ESD – Electrostatic discharge for ICC contact cards
Section 6.6	ESD – Electrostatic stress for PICC and VICC
Section 6.7	Electrical resistance of contacts of ICCs with contacts
Section 6.9	Surface profile of contacts of ICCs with contacts
Section 6.10	ICC – Mechanical strength: 3 wheel test for ICCs with contacts

**The following tests on Identification Cards in accordance with Mastercard CQM Test Methods**

#8010#	Relative height of contacts
#8020#	Dimension and location of contacts
#8030#	Width and height
#8040#	Card Thickness outside Contacts, Embossed Areas and Add-on Areas [IS10373-1]
#8050#	Thickness within Add-on Areas [IS10373-1]
#8080#	Bending stiffness
#8100#	Overall card warpage
#8110#	Resistance to heat
#8130#	Adhesion or blocking
#8140#	Dynamic bending stress
#8150#	Dynamic torsional stress
#8200#	Opacity
#8210#	3 wheel test

**The following tests on Identification Cards in accordance with ISO/IEC 10373-2: Test Methods Part 2, Cards with magnetic stripes**

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Section 5.2	Height and surface profile of the magnetic stripe
Section 5.3	Surface roughness of the magnetic stripe
Section 5.5	Amplitude measurements
Section 5.6	Flux transition spacing variation
Section 5.9	Waveform $U_{i6}$

**The following test on Identification Cards in accordance with ISO/IEC 24789-2 Part 2, Methods of evaluation**

Section 5.2	Surface abrasion
Section 5.3	Magnetic stripe abrasion
Section 5.4	ICM Adhesion
Section 5.7	Temperature and humidity aging
Section 5.8	Temperature shock
Section 5.9	Temperature and humidity cycling
Section 5.10	ID-1 card flexure
Section 5.11	Temperature and humidity aging followed by peel strength testing

**The following tests on Identification Cards in accordance with ANSI INCITS 322: Card Durability Test Methods**

Section 5.3	ID-1 Card flexure
Section 5.8	Surface abrasion
Section 5.10	Magnetic stripe abrasion
Section 5.21	IC Card with contacts micromodule adhesion

**The following tests on Identification Cards in accordance with in-house methods based on ISO/IEC 7811-1**

Measured Embossing Location

**The following tests on Identification Cards in accordance with in-house methods based on ISO/IEC 7811-6**

Magnetic stripe encoded track location (measured)

**The following tests on Identification Cards in accordance with in-house methods based on ISO/IEC 7816-1 (4.3)**

Mechanical strength of contacts

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