



Card Testing International Ltd

Client Number 8916

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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

Approved Signatories

Mr Steve DeDera	4.45
Mr Daniel Passmore	4.45

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Card Testing International Ltd
 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 5.4 Resistance to chemicals
- Section 5.5 Card dimensional stability and warpage with temperature and humidity
- Section 5.6 Adhesion or blocking
- Section 5.7 Bending stiffness
- Section 5.8 Dynamic bending stress
- Section 5.9 Dynamic torsional stress
- Section 5.10 Opacity
- Section 5.15 Resistance to heat
- Section 5.16 Surface distortions and raised areas
- Section 5.17 Dimensions and locations of contacts for ICCs with contacts
- Section 5.18 Static electricity tests for ICCs with contacts
- Section 5.19 Static electricity tests for proximity and vicinity ICCs
- Section 5.20 Electrical surface resistance of contacts of ICCs with contacts
- Section 5.21 Surface profile of contacts of ICCs with contacts
- Section 5.22 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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