ISO-IEC 10373-1 Peel Fixture

90° Peel Fixture for ID Cards

Built to ISO-IEC 10373-1 — Cards and security devices for personal identification — Test methods — Part 1: General characteristics



OVERVIEW

Low-force peel fixture for testing the layer adhesion of identification cards. The card is held face-down in a frame on low-friction rollers that let it travel sideways as the peeled layer is pulled downward into a small wedge grip, holding the peel angle at 90° throughout the test.

KEY FEATURES

- Roller-supported card carriage keeps the peel angle at 90°
- Open frame design gives full view of the peel front
- Small wedge grip clamps the peeled layer securely
- Pin-mounted to the load cell for low-force accuracy
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Peel strength of card layers, per ISO/IEC 10373-1
Test type / loading	90° peel, constant crosshead speed
Specimens	ID-1 format cards and card laminates
Load capacity	100 N standard; other capacities on request
Fixture material	Stainless steel frame and rollers
Gripping surfaces	Serrated wedge grip jaw for peeled layer
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines, low-force frames

APPLICATIONS

- Payment, ID and access cards
- Card overlays, laminates and holograms
- Card manufacturing QC
- Smart card and passport data pages

ABOUT THE STANDARD

ISO/IEC 10373-1 defines test methods for general characteristics of identification cards, such as card warpage, dimensions, bending stiffness, peel strength, resistance to chemicals and dynamic bending. The peel strength test measures the force needed to separate card layers or overlays at 90°, verifying the delamination requirements of ISO/IEC 7810.

Ordering & customization: Specify card format, peel strip width, load capacity and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures.
Part ref. UGC-ISO-IEC10373-1-PF