

90° Peel Table for Flexible-to-Rigid Bonds

Built to ISO 8510-1 — Adhesives — Peel test for a flexible-bonded-to-rigid test specimen assembly — Part 1: 90° peel



OVERVIEW

Sliding 90° peel table for testing flexible materials bonded to rigid substrates. The rigid adherend is clamped to a roller-guided carriage, and a cable linked to the crosshead pulls the carriage sideways as the flexible layer is peeled upward, so the peel angle stays at 90° throughout the test.

KEY FEATURES

- Cable-linked carriage tracks the crosshead to hold an exact 90° angle
- Ball-bearing rollers give low-friction, smooth carriage travel
- Spring-loaded knurled clamp pins hold rigid substrates quickly
- Adjustable end rail and tension screw for setting the cable
- Supplied with cable, crimp ferrules and cable tension handle

TECHNICAL SPECIFICATIONS

Test method	90° peel, flexible-to-rigid, per ISO 8510-1
Test type / loading	Tension, constant 90° peel angle
Specimens	Flexible adherend bonded to rigid plate, typically 25 mm wide
Load capacity	1 kN standard; higher capacities on request
Fixture material	Stainless steel and aluminium
Carriage	Roller-guided sliding table, cable-driven by crosshead
Machine connection	Knurled threaded adapter to lower frame mount
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Structural and pressure-sensitive adhesives
- Tapes, films and laminates on panels
- Automotive trim and interior bonds
- Adhesive formulation and QC

ABOUT THE STANDARD

ISO 8510-1 specifies a 90° peel test for determining the peel resistance of an adhesive bond between a flexible and a rigid adherend. The flexible adherend is peeled from the rigid one at a constant rate and angle, and the peel strength is reported as the average force per unit width over a specified length of peel, in N/mm.

Ordering & customization: Specify rigid substrate dimensions and thickness, peel strip width, required capacity and test machine connection when ordering. Upper grip for the flexible strip available.

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-ISO8510-1-PF