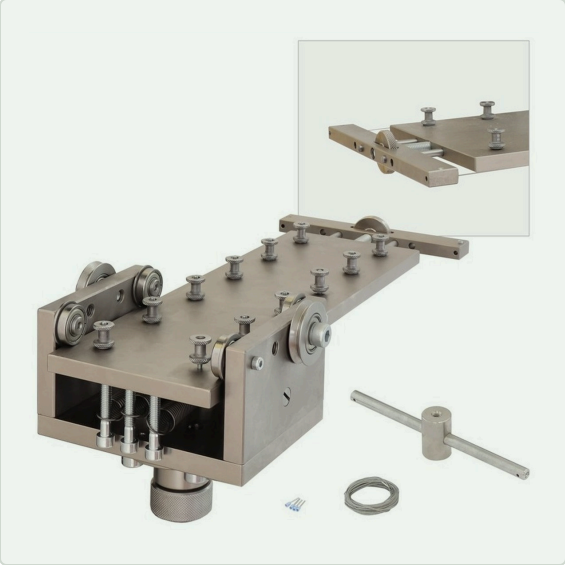
90-Degree Peel Fixture for Adhesive Bonds

Built to ASTM D6862 — Standard Test Method for 90 Degree Peel Resistance of Adhesives



OVERVIEW

Sliding-table 90-degree peel fixture for adhesive bond testing per ASTM D6862. The rigid adherend is mounted on a low-friction carriage that travels horizontally as the flexible adherend is pulled upward, keeping the peel angle at 90 degrees throughout the test so peel force is measured consistently.

KEY FEATURES

- Linear-bearing carriage tracks the peel front to hold a constant 90-degree angle
- Low-friction travel minimizes added force in peel results
- Clamps secure the rigid adherend without distortion
- Accepts a range of substrate widths and thicknesses
- Pairs with a small grip for the flexible adherend

TECHNICAL SPECIFICATIONS

Test method	90-degree peel
Test type / loading	Tension (peel), constant crosshead rate
Specimens	Flexible adherend bonded to rigid substrate per ASTM D6862
Load capacity	1 kN standard; higher capacities on request
Fixture material	Aluminum and steel construction
Carriage	Linear bearing sliding table with substrate clamps
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Structural and pressure-sensitive adhesives
- Laminated films and foils to rigid substrates
- Surface preparation studies
- Coatings and bonded assemblies QC

ABOUT THE STANDARD

ASTM D6862 determines the 90-degree peel resistance of adhesive bonds between a flexible and a rigid adherend. The flexible member is peeled at a constant 90-degree angle using a fixture that moves the rigid substrate to maintain the angle. Average peel force per unit width is reported, comparing adhesives, surface preparations and bonding processes.

Ordering & customization: Specify substrate width, length and thickness, expected peel force and test machine connection. Matching grip for the flexible adherend 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-D6862-PF