T-Peel Test Fixture for Flexible Adhesive Bonds

Built to ASTM D1876 — Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)



OVERVIEW

T-peel fixture for measuring the peel resistance of adhesive bonds between two flexible adherends. The unbonded ends of the specimen are clamped in opposing grips and pulled apart, forming a T-shape as the bond line peels progressively. Average peel load per unit width is recorded over the peel length.

KEY FEATURES

- Pair of self-aligning wedge or screw grips for T-peel specimens
- Wide jaw faces accommodate standard specimen widths
- Serrated faces grip thin metal and flexible adherends securely
- Grips self-align to keep the peel plane on the load axis
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	T-peel
Test type / loading	Tension, 180 deg separation of flexible adherends
Specimens	Bonded flexible adherends per ASTM D1876 specimen geometry
Load capacity	1 kN standard; higher capacities on request
Fixture material	Steel or aluminum body, corrosion-resistant finish
Gripping surfaces	Serrated or rubber-coated jaw faces
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Metal-to-metal flexible bonds
- Laminated films and foils
- Adhesive formulation comparison
- Surface treatment evaluation

ABOUT THE STANDARD

ASTM D1876 determines the relative peel resistance of adhesive bonds between flexible adherends using a T-type specimen. The bent, unbonded ends are clamped in the upper and lower grips and separated at a constant rate. The method is primarily used for comparing adhesives and bonding processes, typically with thin metal adherends.

Ordering & customization: Specify specimen width, adherend thickness, required capacity and test machine connection when ordering. Alternate jaw faces 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-D1876-PF