ASTM D5170 Peel Fixture

T-Peel Fixture for Hook and Loop Fasteners

Built to ASTM D5170 — Standard Test Method for Peel Strength ("T" Method) of Hook and Loop Touch Fasteners



OVERVIEW

T-peel grips for measuring the peel strength of hook and loop touch fasteners. After the tapes are engaged, the free ends of the hook and loop components are clamped in opposing grips and pulled apart in a T configuration, recording the force needed to progressively disengage the fastener.

KEY FEATURES

- Opposing grips set up for a T-peel configuration
- Wide faces clamp the full tape width evenly
- Faces that grip backing without damaging hooks or loops
- Pairs with a closure roller for consistent engagement
- Lightweight design for low-force load cells

TECHNICAL SPECIFICATIONS

Test method	T-peel strength of hook and loop fasteners
Test type / loading	Tensile T-peel
Specimens	Engaged hook and loop strips, per ASTM D5170
Load capacity	500 N standard; higher capacities on request
Fixture material	Steel or aluminum, corrosion-resistant finish
Gripping surfaces	Serrated or rubber-lined faces sized to tape width
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Hook and loop fastener tapes
- Apparel and footwear closures
- Medical and orthopedic straps
- Packaging and consumer goods closures

ABOUT THE STANDARD

ASTM D5170 measures the peel strength of engaged hook and loop touch fasteners using a T-peel configuration. The components are engaged under controlled conditions, then the unbonded ends are pulled apart in opposite directions on a tensile machine. Peak and average peel forces are recorded. It is used for specification and quality control of fastener products.

Ordering & customization: Specify tape width, required capacity and test machine connection when ordering. Closure rollers 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-D5170-PF