

Pneumatic Grips for Thin Plastic Film Tensile Testing

Built to ASTM D882 — Standard Test Method for Tensile Properties of Thin Plastic Sheet



OVERVIEW

Pneumatic grips for tensile testing of thin plastic films and sheeting per ASTM D882. Air-actuated jaws close with consistent, adjustable force across the full specimen width, holding thin, slippery films without tearing at the jaw line and allowing fast, operator-independent loading.

KEY FEATURES

- Air-actuated jaws give consistent, adjustable clamping force
- Wide faces clamp the full specimen width
- Rubber-coated or line-contact faces prevent tearing and slip
- Simultaneous closing keeps specimens aligned
- Hands-free operation increases throughput

TECHNICAL SPECIFICATIONS

Test method	Tensile properties of thin plastic sheeting
Test type / loading	Tension, constant rate of grip separation
Specimens	Rectangular film strips per ASTM D882
Load capacity	1 kN standard; higher capacities on request
Actuation	Pneumatic, adjustable clamping pressure
Gripping surfaces	Rubber-coated, smooth or line-contact faces
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Packaging films
- Thin plastic sheeting
- Barrier and laminated films
- Film extrusion QC

ABOUT THE STANDARD

ASTM D882 determines the tensile properties of plastics in the form of thin sheeting and films less than 1 mm thick. Rectangular strips are pulled at a constant rate of grip separation, and tensile strength, elongation, modulus and energy to break are reported. It is widely used for packaging films and flexible plastics.

Ordering & customization: Specify film width, jaw face, required capacity, air supply and test machine connection. Supplied as a matched pair.

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-D882-PG