

Line-Contact Tensile Grips for Paper and Paperboard

Built to ASTM D828 — Standard Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus



OVERVIEW

Tensile grips for paper and paperboard strips per ASTM D828. The grips clamp the full specimen width along a narrow line of contact so the test span is well defined, preventing slippage and jaw breaks. Faces are aligned so the strip is pulled straight on a constant-rate-of-elongation machine.

KEY FEATURES

- Line-contact faces clamp across the full specimen width
- Aligned upper and lower faces prevent strip twisting
- Quick-acting clamping for high-throughput testing
- Faces designed to minimize slippage and jaw breaks
- Lightweight for low-capacity load cells

TECHNICAL SPECIFICATIONS

Test method	Tensile properties of paper and paperboard
Test type / loading	Tension, constant rate of elongation
Specimens	Paper and paperboard strips per ASTM D828
Load capacity	1 kN standard; higher capacities on request
Actuation	Manual or pneumatic, to suit application
Gripping surfaces	Line-contact and flat faces
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Paper and paperboard
- Packaging and converting materials
- Tissue and specialty papers
- Pulp and paper mill QC

ABOUT THE STANDARD

ASTM D828 determines the tensile breaking strength, stretch, tensile energy absorption and stiffness of paper and paperboard using a constant-rate-of-elongation tensile tester. Strip specimens are clamped and pulled to rupture. The results characterize paper performance for packaging, printing and converting applications and are widely used in mill quality control and product specifications.

Ordering & customization: Specify specimen width, expected breaking load, actuation 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-D828-TG