ASTM D1388 Stiffness Test Fixture

Bending Stiffness Fixture for Fabrics

Built to ASTM D1388 — Standard Test Method for Stiffness of Fabrics



OVERVIEW

Stiffness test fixture for fabrics. A fabric strip is supported on a horizontal platform and advanced or loaded so that it bends under its own weight, and the bending length is used to calculate flexural rigidity. Smooth, low-friction surfaces and a clear angular reference give repeatable readings.

KEY FEATURES

- Low-friction horizontal platform for smooth specimen travel
- Clear angular reference for consistent bending readings
- Graduated scale for direct bending length measurement
- Accepts standard fabric strip widths
- Compact bench-top design

TECHNICAL SPECIFICATIONS

Test method	Fabric stiffness by bending length
Test type / loading	Self-weight bending (cantilever principle)
Specimens	Fabric strips per ASTM D1388
Load capacity	Not applicable; gravity loading
Fixture material	Aluminum and steel, corrosion-resistant finish
Contact surfaces	Smooth, low-friction platform
Measurement	Graduated scale for bending length
Use	Bench-top or test-machine-mounted, per customer setup

APPLICATIONS

- Apparel and home textile fabrics
- Nonwovens and technical textiles
- Coated fabrics
- Finishing and softener evaluation

ABOUT THE STANDARD

ASTM D1388 determines the stiffness of fabrics by measuring bending length and calculating flexural rigidity. Option A uses the cantilever principle, sliding a strip over the edge of a platform until it bends to a set angle, and Option B uses a heart loop. It applies to most woven, knitted and nonwoven fabrics, coated or uncoated.

Ordering & customization: Specify fabric strip width, preferred option (cantilever or heart loop) and mounting arrangement when ordering.

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-D1388-STF