

ASTM D3574 Compression Platens

Compression Platens for Flexible Urethane Foam

Built to ASTM D3574 — Standard Test Methods for Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams



OVERVIEW

Compression platen set for testing flexible urethane foams. A large flat platen supports the foam specimen while an upper platen or indenter foot compresses it, allowing indentation force deflection (IFD) and compression force deflection (CFD) values to be measured on a universal test machine.

KEY FEATURES

- Large perforated support platen allows air to escape
- Upper compression platen or circular indenter foot available
- Flat, parallel faces for uniform compression
- Lightweight construction for low-force accuracy
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Indentation and compression force deflection
Test type / loading	Compression
Specimens	Foam blocks per ASTM D3574 test-specific geometry
Load capacity	5 kN standard; higher capacities on request
Fixture material	Aluminum, corrosion-resistant finish
Contact surfaces	Flat platens; perforated support plate
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Seating and furniture foam
- Mattresses and bedding
- Automotive seat cushions
- Foam production QC

ABOUT THE STANDARD

ASTM D3574 covers test methods for slab, bonded and molded flexible urethane foams, including density, indentation force deflection, compression force deflection, compression set, tensile, tear, resilience and fatigue. Force deflection tests compress the foam to specified deflections and record force, characterizing comfort and support performance in seating and bedding applications.

Ordering & customization: Specify specimen size, indenter foot or platen diameter, support plate size and test machine connection 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-D3574-CP