Indentor Foot for Flexible Foam Hardness Testing

Built to ISO 2439 — Flexible cellular polymeric materials — Determination of hardness (indentation technique)



OVERVIEW

Circular indentor foot for indentation hardness testing of flexible foam. The flat foot with a radiused edge presses into the foam specimen, and a bolted spherical seat lets it self-align to the specimen surface, while the pin connection mounts it directly to the load cell.

KEY FEATURES

- Flat circular indentor with radiused edge per ISO 2439 geometry
- Bolted spherical seat lets the foot self-align to the specimen
- Pin connection mounts the foot directly to the load cell
- Rigid, flat foot for uniform indentation across the face
- Matching perforated support plate available

TECHNICAL SPECIFICATIONS

Test method	Indentation hardness (force at set indentation)
Test type / loading	Compression via circular indentor
Specimens	Flexible foam blocks per ISO 2439
Load capacity	5 kN standard; higher capacities on request
Fixture material	Steel, corrosion-resistant finish
Contact surfaces	Flat Ø200 mm indentor face, radiused edge
Alignment	Bolted spherical seat
Machine connection	Pin connection or threaded adapter, to suit frame

APPLICATIONS

- Flexible polyurethane foam
- Latex foam
- Mattresses, seating and automotive cushions
- Foam production QC

ABOUT THE STANDARD

ISO 2439 specifies methods for determining the indentation hardness of flexible cellular materials such as latex and polyurethane foam. A flat circular indentor compresses the specimen to defined percentages of its thickness, and the forces at set indentations, such as 25 % and 40 %, are recorded as hardness index values.

Ordering & customization: Specify indentor diameter, whether a support plate is required 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-ISO2439-CP