ASTM D695 Fig. 4 Compression Platens

Thin-Specimen Compression Platens with Support Jig

Built to ASTM D695 Fig. 4 — Standard Test Method for Compressive Properties of Rigid Plastics



OVERVIEW

Compression platens with a lateral support jig for thin rigid plastic specimens per ASTM D695. Hardened platens apply end load while side supports keep the thin specimen from buckling, allowing compressive strength and modulus to be measured on sheet material that would otherwise fail by instability.

KEY FEATURES

- Lateral support jig stabilizes thin sheet specimens against buckling
- Hardened, precision-ground platens for uniform end loading
- Support plates tightened evenly without restricting axial load
- Accepts thin sheet and laminate specimens per D695
- Threaded or clevis adapters to suit customer load frame

TECHNICAL SPECIFICATIONS

Test method	Compression of thin rigid plastics with support jig
Test type / loading	Static compression, low uniform strain rate
Specimens	Thin dumbbell or flat specimens per ASTM D695
Load capacity	50 kN standard; higher capacities on request
Fixture material	Hardened tool steel, corrosion-resistant finish
Contact surfaces	Ground platens; flat support plates for specimen faces
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Thin plastic sheet and laminate
- Reinforced plastics and composites
- Material property data sheets
- Plastics R&D and QC labs

ABOUT THE STANDARD

ASTM D695 determines the compressive properties of unreinforced and reinforced rigid plastics at low uniform rates of straining. For thin material, the standard calls for a support jig that braces the specimen faces against buckling while it is end-loaded between flat platens. Compressive strength, yield and modulus are then calculated from the load-deformation response.

Ordering & customization: Specify specimen thickness and dimensions, required capacity and test machine connection.

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-D695Fig.4-CP