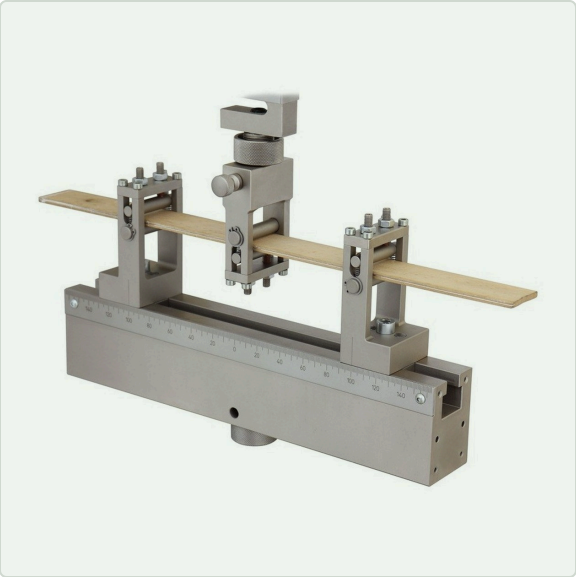
PRODUCT DATA SHEET

ASTM D7774 Bend Fixture

Flexural Fatigue Fixture for Plastics

Built to ASTM D7774 — Standard Test Method for Flexural Fatigue Properties of Plastics



OVERVIEW

Three- or four-point bend fixture for flexural fatigue testing of plastics per ASTM D7774. Rigid, low-mass construction and hardened rollers maintain stable alignment through high-cycle loading, with optional hold-down elements to keep the specimen seated under reversing loads. Spans can be set to suit specimen size.

KEY FEATURES

- Three- or four-point configurations with adjustable spans
- Low-mass, rigid design for high-frequency cycling
- Hardened, ground rollers resist wear in long tests
- Optional hold-downs keep specimen seated
- Designed for dynamic test frames

TECHNICAL SPECIFICATIONS

Test method	Flexural fatigue
Test type / loading	Cyclic three- or four-point flexure
Specimens	Rectangular plastic bars per ASTM D7774
Load capacity	5 kN dynamic standard; higher capacities on request
Fixture material	Hardened steel, corrosion-resistant finish
Loading members	Hardened, ground rollers
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Servo-hydraulic and electrodynamic fatigue machines

APPLICATIONS

- Plastic parts in cyclic bending service
- Resin and compound comparison
- Automotive and consumer product plastics
- Durability R&D

ABOUT THE STANDARD

ASTM D7774 determines the flexural fatigue properties of plastics under repeated three- or four-point bending. Rectangular bar specimens are cycled under load or deflection control at a set frequency until failure or a set number of cycles. Results include number of cycles to failure and stiffness change, used to compare materials in cyclic service.

Ordering & customization: Specify specimen dimensions, spans, configuration, dynamic 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-D7774-BF