

Stiffness Tester

Taber 150-T

The 150-T Stiffness Tester evaluates material stiffness, flexural strength, resiliency and elasticity properties of a wide range of products including paper and paperboard along with other sheet materials or wire.

A bi-directional pendulum weighing system provides an accurate and responsive method for measuring small load increments to evaluate the resistance to bending. Force is applied to the lower end of the specimen by rollers attached to the driving disc. Located directly behind the pendulum, the driving disc pushes the rollers at a constant rate against the specimen which deflects it from its vertical position. The pendulum applies increasing torque to the specimen as it deflects further from the vertical. The test point reading occurs when the pendulum mark aligns with the appropriate driving disc mark (7.5° or 15°) which points to the stiffness reading on the fixed annular disc.

Recognized in International Test Standards

Tappi T489 or ISO 2493 is intended for most paper or paperboard. Tappi T566 is intended for papers of low grammage or are highly flexible and exhibit bending stiffness in the range of 0 to 10 Taber Stiffness Units.

Test a Wide Range of Materials.

Nine (9) distinct testing ranges permit testing materials that are extremely lightweight and flexible to materials that are very rigid. Each range has a specific roller position and pendulum load which is adjustable through supplemental weights. The 150-T Stiffness Tester can test materials including paper, paperboard, plastics, metals, nonwovens, textiles, rubber, felt and many others. Wire and cable stiffness characteristics may also be evaluated.



FEATURES

- LCD touch-screen interface
- Graphic display of test range setup.
- Test specimen up to 7.5mm thick
- Nine (9) distinct ranges
- Predetermine specimen length, deflection angle, and rate of loading for reproducible test results.
- Output in Taber Stiffness Unit (Gram-Force Centimeter) or Millinewton Meter
- Factory calibrated to accuracy of $\pm 1\%$ of full scale
- Compensator range weight
- Taber unit range weights 500, 1000, 2000
- 115/230V, 50/60Hz operation

