

ANALOG STIFFNESS TESTER

MODEL 150-B



Flexibility and Bending Resiliency Testing

Precision instrument evaluates material stiffness

The Analog Stiffness Tester utilizes a two directional pendulum-type weighing system to evaluate material stiffness, flexural strength, resiliency and elasticity properties. The Analog Stiffness Tester provides accurate test measurements to +/- 1.0% in stiffness and resiliency evaluation in thicknesses from 0.004 in. to 0.219 in. Force is applied to the lower end of the specimen by a pair of rollers attached to the driving disc. The resulting torque tilts the pendulum from its vertical position and a Taber Stiffness Unit reading (g•cm) is taken when the pendulum mark aligns with the appropriate driving disc mark (71/2° or 15°). Predetermined sample length, deflection angle and rate of loading provide accurate and reproducible test results.

The Analog Stiffness Tester is a manually operated instrument. Offering the same accurate, precision test results as the Digital Stiffness Tester, this instrument requires the user to record stiffness testing data, average the readings and multiply results by a scaling factor. Mounted on telescoping tripod legs, the Analog Stiffness Tester is lightweight for easy portability. Electronic components are sealed in a rugged housing.

Applications

Paper, Cardboard, Plastic, Metals, Fabric, Felt, Leather, Rubber, Wire, Tubing and other Sheet Materials.

Models Available

Taber Stiffness testers are available in two models. Both units offer bi-directional pendulum type testing in a range from 0-10,000 Taber Stiffness Units.

Standard Features:

- Factory calibrated to accuracy of ±1% full scale
- Telescoping, tripod base
- Ratchet stop roller
- Constant speed motor
- Dynamic brake holds pendulum at the deflection
- Range weights to test most products

Established tester offers durable construction

Based on the original Taber Stiffness Tester, Model 150-B offers telescoping tripod legs which make this instrument lightweight and portable. Operated manually by an lever control switch, a robust housing protects the electrical components. The new ratchet stop roller significantly reduces specimen mounting variability.

Test a wide range of products

Nine distinct ranges permit testing of materials that are extremely lightweight and flexible (such as cellophane or thin metallic foils) to items that are very rigid (such as plastics). Taber Stiffness Testers will evaluate paper, foil, light metallic sheet, laminated plastic, cardboard, wire, and other flexible materials up to 5.5 mm (0.219 inches) thick that do not exceed 10,000 Taber Stiffness Units.



