

# Stiffness Tester

## Taber 150-B

The Taber Stiffness Tester 150-B evaluates material stiffness, flexural strength, resiliency and elasticity properties of a wide range of products.

A two directional pendulum-type weighing system is used to evaluate material stiffness, flexural strength, resiliency and elasticity properties. 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 ( $\text{g}\cdot\text{cm}$ ) is taken when the pendulum mark aligns with the appropriate driving disc mark ( $71/2^\circ$  or  $15^\circ$ ). Predetermined sample length, deflection angle and rate of loading provide accurate and reproducible test results.

This tester features telescoping tripod legs making the instrument lightweight and portable. It is operated manually by a lever control switch. The electronics are kept within a durable housing and there is also a ratchet stop roller used to reduce sample variability.

There are nine setup options available to test a range of materials that are delicate to more rigid materials. Common materials that the Taber 150-B can test are paper, foil, light metallic sheet, laminated plastic, cardboard, wire, and other flexible materials up to a maximum of 5.5 mm thick. The material tested should not exceed 10,000 Taber Stiffness Units.

### Common Industry Standards Include:

ASTM D5342, ASTM D5650, ISO 2493, TAPPI T489, TAPPI T566



**Thwing-Albert**  
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