

MODEL 150-T

Taber® V-5 Stiffness Tester

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. The V-5 Stiffness Tester can test paper and paperboard along with other sheet materials or wire.

STANDARD FEATURES

- LCD OPERATOR TOUCH SCREEN INTERFACE WITH SELECTABLE DISPLAY OPTIONS
- GRAPHIC DISPLAY OF TEST RANGE SET-UP
- TEST SPECIMENS UP TO 7.5 MM THICK
- NINE (9) DISTINCT RANGES
- PREDETERMINED SPECIMEN LENGTH, DEFLECTION ANGLE AND RATE OF LOADING ENSURE REPRODUCIBLE TEST RESULTS
- OUTPUT IN TABER STIFFNESS UNIT (GRAM-FORCE CENTIMETER) OR MILLINEWTON METER
- EASILY STORE DATA AND TRANSFER VIA USB DRIVE
- FACTORY CALIBRATED TO ACCURACY OF $\pm 1\%$ OF FULL SCALE



With more than 80 years of experience in material testing, Taber provides you with a resource you can depend on. Contact a Taber Sales Application Engineer at 1-800-333-5300 or email sales@taberindustries.com.

TABER® V-5 STIFFNESS TESTER

RECOGNIZED IN INTERNATIONAL TEST STANDARDS

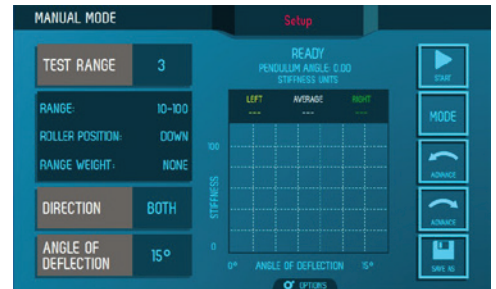
The Taber V-5 Stiffness Tester is used to determine the bending moment required to deflect the free end of a vertically clamped specimen 15° to the left and to the right when a load is applied at a constant bending length. Readings taken in the two directions are averaged to give the stiffness of the test piece. The resistance to bending is calculated from the bending moment. 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 V-5 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.

TABER V-5 STIFFNESS TESTER INCLUDES:

- Compensator Range Weight
- Taber Unit Range Weights 500, 1000, 2000
- Calibration Specimen



LCD OPERATOR TOUCH SCREEN

Provides enhanced user experience with an easy-to-use operator interface.

V-5 STIFFNESS TESTER REFERENCE DIMENSIONS



OPTIONAL ACCESSORIES (SOLD SEPARATELY)

- TRIPLE CUT SPECIMEN SHEAR
- CALIBRATION SPECIMEN
- SENSITIVITY RANGE ATTACHMENT
- AUXILIARY RANGE WEIGHT SET (3000 & 5000 UNITS)

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