



Model 80-26 Internal Bond™ Tester



Model 80-30 Internal Bond™ Sample Prep Station

Internal Bond™ Tester

Model 80-26

The **Internal Bond™ Tester** is designed to determine the internal bond strength of a variety of Paper and Board materials according to TAPPI T 569 and ISO 16260. The instrument design is based on a falling pendulum which creates a high speed impact on a paper specimen. The paper specimen is sandwiched between two double-coated tape substrates. The pendulum impact measures the total energy required to delaminate the internal fibers of a specimen in a "Z" type direction into two plies.

An automatic sample preparation station (Model 80-30) is available which allows five specimens to be accurately pressed and cut simultaneously. The prep station includes a safety enclosure over the cutting blades, eliminating the use of box cutting knives to separate the individual test specimens.

Calibration Block Set

80-20-01 calibration block set is available for verifying calibration. The block set can be used with each of the 3 available pendulums. A force verification document for each range pendulum is included.

A set of 5 verification blocks are provided to check the operation. The block set is a proven method to insure the instrument is operating correctly. The verification procedure includes a support fixture which is clamped onto the base and supports the block. The verification block rests in the support fixture. When the pendulum swings, it contacts the block. When the block is impacted by the pendulum, the system measures the force/resistance to move the block from the support fixture.

GraphMaster Pro Software

The GraphMaster Pro software is compatible with the 80-26 Internal Bond™ Tester. With the GraphMaster Pro, the data from your test is immediately available on your PC, and can be easily analyzed, stored and translated in a professional report.



Features

- 7" inch full-color digital touchscreen display
- Storage and editing of up to 100 readings including average and standard deviation
- Selectable units (ft.lb/in², J/m² and kg•cm)
- Easy-to-use one button operation for clamping anvil and starting test
- Several Pendulum ranges available:
0-841J/m² (0-400ft.lb x 10-3),
315-1575J/m² (150-750ft.lb x 10-3),
420-2100J/m² (200-1000ft.lb x 10-3)
- Magnetic hammer release
- Automatic calibration
- Ability to create, edit and save test procedures
- Automatic specimen hold-down during test sequence
- Universal power supply for 110V / 220V operations
- Automatic pendulum brake after test (optional)
- Calibration block set for verifying calibration (optional)

Applications

- Newsprint, fine paper, liner board, book stock, carton board, medium, coatings, laminates

Standards

- Conforms to TAPPI standard T 569
- ISO 16260 Paper and Board – determination of internal bond strength

Vertrieb in Deutschland durch:



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Technical Specification

Model	80-26-00-0001 Ibond tester without brake 80-26-00-0002 Ibond tester with brake
Ranges	0-841J/m ² (0-400ft.lb x 10 ⁻³) 315-1575J/m ² (150-750ft.lb x 10 ⁻³) 420-2100J/m ² (200-1000ft.lb x 10 ⁻³)
Pendulum Release	Magnetic
Peak/Angular Resolution	0.04"
Results Units	ft.lb/in ² , J/m ² , kg•cm
Statistics	Average, standard deviation, minimum and maximum

Weights & Dimensions

Net Weight (kg)	23 (51lb)
Width (cm)	53.3 (21")
Depth (cm)	40 (15.7")
Height (cm)	60.3 (23.7")

Pendulums (must be ordered separately, please specify)

80-20-04	0.4ft.lb/in ² pendulum assembly (standard range)
80-20-02	0.75ft.lb/in ² pendulum assembly
80-26-03	1.0ft.lb/in ² pendulum assembly specifications

Optional Ancillaries

80-20-01	Calibration Block Set
80-26-001	Ibond update kit (upgrade existing models)

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