MODEL 84-96 ZDT Tester

There are several methods developed to measure internal bond strength or delamination strength of paper and board. The most common are the Scott type internal bond strength which is a dynamic impact test based on the energy stored when a pendulum is released. A second method is the Z-directional tensile strength. ZDT measures the tensile strength of a specimen which is sandwiched and compressed between two adhesive tapes. After compression, the specimen is separated to determine the maximum force at rupture.

FEATURES

- 1kN frame and load cell configuration standard
- Square and Circular ZDT Clamps
- Complete software with instrument control and ZDT Analysis Software
- Conforms to TAPPI T541, ISO 15754 and related specifications
- Rigid aluminum alloy frame with compact footprint

SPECIFICATIONS

- Load cell with 1000N range
- Resolution 0.01N
- Accuracy +/- 0.1%
- Includes one set of 1 inch x 1 inch square plates
- Includes one set of 1 inch diameter plates
- Part # 84-96-00-0001

OPTIONS

- Higher/lower range load cell
- Can be configured with testing fixtures for other tests

STANDARDS

- TAPPI T 541
- ISO 15754

APPLICATIONS

Converting processes

- Corrugating, printing, coating or laminating: ‘stickiness’ of applicator rolls or drying sections applies Z-Directional forces on the sheet and can cause delamination

Paper Mills

- In the process of applying coatings and drying paper, Z-Directional forces on the sheet can separate the fibers
- Paper Sheets may also adhere to the surface of a calendar roll causing Z-Directional forces on the sheet

RELATED TESTS

- Model 80-20 Internal Bond Strength-Scott type
- Meets TAPPI T 569, ISO 16260