BURSTING STRENGTH TESTER BT-10 series

“Mullen type”

BT-10/P model for Determining the Bursting Strength Value of PAPER
BT-10/C model for Determining the Bursting Strength Value of Compact and Corrugated BOARD

Applicable standards:
For PAPER tests: DIN EN ISO UNE 2758 - SCAN P24 - TAPPI T403 - PAPTAC D.8 - BS 3137 - APPITA AS 1301.403

T-LAB Test Software for Burst Resistance
- “Mullen” index calculations
- B.E.A. (Burst Energy Absorption)
- Pressure.

“Data in Real Time…”

“Mullen” Index (kN/g, kPa.m²/g)
Burst Resistance (kPa, PSI, Bar Kg/cm²)

- 15” laptop PC interface - for Data Acquisition and Control
- T-LAB Burst Test Software
- Statistics: Min/Max, Average and Standard Deviation
- Save – Print – Copy to Office Clipboard...
- Direct Reading in kPa – Kg/cm² – Bar & PSI
- USB interface f/connection to a PC
- Improve Your Quality System to ISO 9000
- Eliminates Human Error
- Languages: (English – Spanish)
- Measurement ranges: (f/ PAPER model: from 0 to 1500 kPa & f/BOARD model: from 200 to 5,000 kPa)
- Security System of operation included
- Pneumatic Clamping System
- Constant Pressure Clamping
- Acrylic protection screen (for test area)
BURSTING STRENGTH TESTERS BT-10/P and BT-10/C models

TEST DESCRIPTION

Tests are made by means of applying hydraulic pressure (glycerine hydraulic liquid) to the sample by a natural rubber membrane. The maximum pressure reached at the breaking moment of the sample is displayed in the Ultralight PC color monitor (digital and Graphic mode).

After placing the sample in its test position, press the test button in the T-LAB software. The acrylic protection screen will go down followed by the pneumatic clamping device to support the sample. The hydraulic pressure will begin to apply underneath the sample automatically. When the sample breaks, the hydraulic cylinder will automatically stop and reverse the movement, until it arrives to its initial test position. The pressure at which the sample breaks will be captured by the LYNX software.

The protection screen and the sample support will be automatically open, leaving the equipment ready for next sample test.

The new model performs burst tests in both PAPER, as well as COMPACT and CORRUGATED BOARD. The rubber membrane is put in place and the pumping speed specified by the according standard is automatically selected on the front panel.

* COMPACT and CORRUGATED BOARD = 170 +/- 15 ml / min           * PAPER = 95 +/- 5 ml / min

SPECIFICATIONS

- Measuring ranges:
  - BT-10/P model for PAPER: from 0 to 1500 kPa (other ranges consult)
  - BT-10/B model for BOARD: from 200 to 5.000 kPa (other ranges consult)
- Accuracy: +/- 1 % of reading between 2 % and 100 % of full scale
- Selecting the breaking detection level between 10% and 90% of maximum value
- Numerical and Graphical data visualization, with Readings in Units:
  - kPa resolution to 0.2 kPa
  - Bars resolution to 0.002 Bar
  - Kg/cm² resolution to 0.002 Kg / cm²
  - PSI resolution to 0.03 PSI
- Statistics: minimum & maximum values, average and standard deviation
- Automatic test cycle with breaking detection and auto-return to initial test position
- Maximum value memory
- Manual and automatic reset
- Select flow of pumping speed by keyboard: 170 ml / min. (corrugated board) and 95 +/- 5 ml / min. (paper)
- With data output by USB
- Maximum thickness of sample: 12 mm
- Sample clamping strength of 7000 N max., adjustable by pneumatic regulator
- Methacrylate protection screen (tests area)
- Emergency switch
- Glycerine deposit store of 200 cc capacity, facilitating a easy drain of the air out of the system
- Power: 250 w
- Air consumption: 0.6 l/test

CONNECTIONS:

- Electrical: 110V/60Hz or 230V/50Hz single-phase
- Compressed Air: 600 kPa

DELIVERY CONTENT:

> Burst Strength Tester BT-10/P or BT-10/B model
> 15” laptop PC with Windows OS
> T-LAB Burst Testing Software
> 1 set of keys to perform membrane changes.
> 500 ml glycerine

DIMENSIONS AND WEIGHT:

- Dimensions: 400 x 550 x 550 mm (W x D x H)
- Box for transport: 500 x 650 x 650 mm (W x D x H)
- Weight Net/Gross: 65 Kg / 110 Kg

* TECHLAB SYSTEMS reserves the right to do any technical modification without advance notice

Doc.: BT10-1-CAT-E-R3