DIGITAL PUNCTURE TESTER
PT-48 model

To determine the absorbed energy or puncture resistance of corrugated and compact cardboard,
especially those employed in the manufacture of packaging.

TECHLABSYSTEMS

DIGITAL PUNCTURE TESTER PT-48 model

APPLICABLE STANDARDS:
UNE ISO 3036 - SCAN P23 - DIN 53142 - TAPPI T-803 - FEFCO 5...

GENERAL INFORMATION
Puncture resistance has become increasingly important, and many countries have included this indicator in the quality specifications of corrugated cardboard.

The PT-48 Digital Puncture Tester measures the ability of corrugated cardboard to resist puncture, changing positional energy before and after perforation of the cardboard, and transforming the change in potential energy into kinetic energy to perforate and tear the cardboard.

In the puncture test according to international standards, the use of a pyramidal puncture head causes the material to load in all spatial directions. During this process, combined tensile, compressive, bending, and shear forces are produced. The result obtained in this test is the energy absorbed in the perforation of the material. To do this, a dynamic pendulum dynamic drilling testing machine like the PT-48 is used
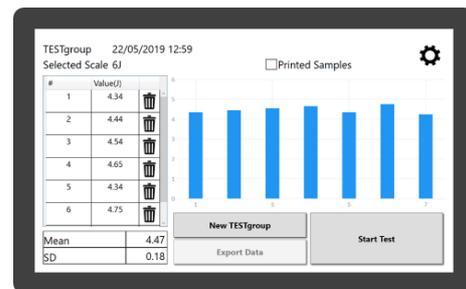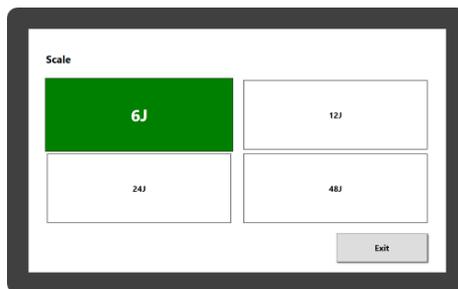
- Digital reading on 10" Touch Screen and USB data output port
- Robust steel frame, designed to avoid energy losses due to vibration during the test
- Pendulum release mechanism (with security system)
- Self-tightening jaws with adjustable pressure to hold the sample
- Pendulum with arm in 90 ° circular arc
- Triangle pyramid hammer head
- 4 reading scales (6-12-24 and 48 J)
- Reading resolution in the 4 scales: 0.01 J
- Compatible with LYNX Management Systems

TEST DESCRIPTION

The principle of the test is to perforate a corrugated cardboard sample with a triangular pyramid shaped firing head attached to a pendulum. The absorbed energy is measured so that the striker head passes completely through the specimen, that is, to carry out the initial perforation, tear and open the cardboard.

SPECIFICATIONS

The team consists of:

• Robust steel frame, designed to avoid energy losses due to vibration during the test

• Pendulum with arm in 90 ° circular arc

• Hammer head in a triangular pyramid (built according to International Standards).

• Collar with smooth adjustment to the firing pin base (with known release energy).

• Interchangeable weights A, B, C and D to select the desired working scale.

• Release mechanism, with security system.

• Safety coverage screens to avoid accidents to the operator.

• Self-tightening specimen clamping jaws, with adjustable closing pressure and anchorage stop at the jaw opening, to facilitate the placement of the samples.

• 4 reading scales in Joules

• Ethernet port (RJ-45 connector) for direct communication with a PC

Security pendulum release system

USB port data output to USB memory

DIGITAL PUNCTURE TESTER PT-48 Model							
Model	4 Escales Joules	Resolution J	Touch Screen "	Port Ethernet	Data Output Port to Pen Drive	Dimensions W x D x H /mm	Weight Kg
PF-48	6 12 24 48	0,01	10"	RJ-45	USB	1050x555x1450	350

**POWER SUPPLY:** 110V/60Hz or 220V/50Hz single-phase
POWER: 150 W
DIMENSIONS OF TRANSPORT PACKAGING: 1380 x 720 x 1690 mm (W x D X H)
GROSS WEIGHT: 455 Kg (Wooden packaging with phytosanitary treatment)

LYNX Software for PET Puncture Tests on Corrugated Cardboard samples:

- **Quickness in the execution of tests and in obtaining results**
- **Without human error**
- **Traceability according to ISO 9000**
- **Included languages: Spanish - English.**
- **The software records minimum, maximum and median value and standard deviation**
- **Storage capacity up to 100 tests per report**
- **SAVE functions. PRINT AND COPY TO CLIPBOARD - Reports in PDF format**
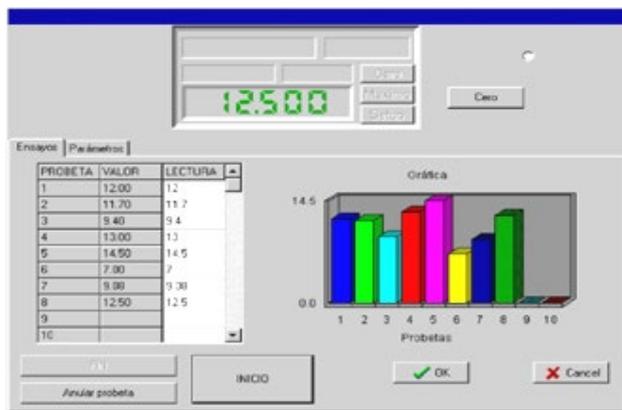
The Testing Software allows making and managing the puncture tests on corrugated cardboard sheet samples.

A package with Basic Statistics is included, to be able to manage the data, choose the language, generate reports, library for changing test units, different levels of Password, Enter minimum, maximum and optimal values to manage the data. with statistics, Bar graphs, GAUSS Bells, Comparison of Tolerances ..., export data to Word - Excel ..., PDF generation ...