

TT-1100 - Tensile/Compression Tester (ChemInstruments, USA)

Ideal for universal tensile tests, the ChemInstruments Tensile Tester is a versatile machine that provides powerful test performance for a variety of materials. It is designed to meet the test method requirements of PSTC, ASTM, TLMI and more. The compact, single screw Tensile Tester offers a range of capabilities that includes: Tensile, Elongation, Modulus, Lap shear, Peel (180° and 90°), Unwind and Tack.



Details:

- Rugged construction, capable of withstanding the abuse of the production environment
- Digital speed control with encoder feedback
- Selectable speed range from 1 to 25 ipm (2.5-64 cpm)
- Maximum testing span is 32" (820 mm) minus the length of the grips
- Throat distance from centerline of grip to mast face is 3.5" (89 mm)
- Return position accuracy is +/-0.005" (0.125 mm) per test cycle
- One load cell is included with the machine (25, 50, 100, or 200 lb capacities available)
- Grips not included, but optionally available
- Operating temperature range 32°-150° F (0°-70° C)
- Capable of stand-alone operation with integrated digital display
- Data can be downloaded to EZ-Lab software for complete data management
- Additional features included with EZ-Lab software: modulus, compression, cycle, loop tack
- Accurate to +/-0.1% of load cell range
- Capable of pulling up to 250 lbs (110 kg)
- Universal input voltage from 85-265 VAC (50/60 Hz)

Data Acquisition System:

- The ChemInstruments electronic data acquisition system is a state-of-the-art microprocessor controlled force measurement package that combines accuracy with ease of use. This system simultaneously controls test motion, reads the force of a test from a load cell, digitally displays it, and stores the data in its memory.
- Records 400 data points per second during a test interval
- Displays the average, high, and low measured force results immediately upon completion of a test
- Export data by RS-232 connection to a local PC with our EZ-Lab software
- Displays test values in grams, kilograms, ounces, pounds, or Newtons

EZ-Lab:

- EZ-Lab Compatible Remote setup, operational control, and enhanced data collection are all possible when coupled with our EZ-Lab data management software. This application requires an external PC.

Accessories:

Essential:

- Various grip styles

Non-Essential:

- EZ-Lab data management software
- Various test panel sizes and materials
- Custom sized hand rollers
- Various sized specimen tape cutters
- Test panel holder
- 90° peel fixture
- Unwind fixture
- Loop tack fixture

Options:

- **Additional load cell capacities available: 25, 50, 100, and 200 lbs**

Specifications:

- Height: 48" (122 cm)
- Width: 13" (33 cm)
- Depth: 18" (41 cm)
- Weight: 54 lbs (25 kg)

Methods:

Some of the more popular test methods that this device is capable of performing:

- PSTC: 31, 39
- ASTM: D 882, D 903, D 928, D 1004, D 3330, D 3759, and many more
- TLMI: L-1A1, II-E, III-A, T 494OM
- AFERA: 4004, 4005

Reference Link:

https://cheminstruments.com/tensile-compression-tester.html#product_tabs_options_tabbed