

# Electronic Tensile Tester GBL-L2



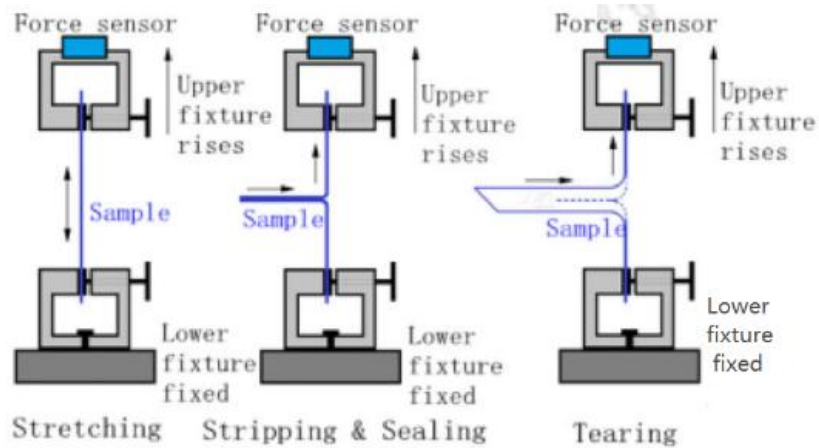
## **Introduction**

The GBL-L2 popular single-column electronic tensile tester is a mechanical performance testing machine developed and manufactured by the Guangzhou Biaoji (GBPI) R&D team based on the requirements of ASTM and other standards and market demand. The instrument adopts high-precision sensors, which have the advantages of high force measurement accuracy, stable loading, and long service life of the testing machine. The LCD screen is equipped with professional software, which can display test curve data and query test reports in real time. It is convenient and fast test for the laboratory. Fully automatic operation, control measurement unit, with complete limit protection, overload protection, emergency stop and other safety protection functions.

It is suitable for tensile, peeling, heat-sealing, tearing and other mechanical performance tests of various metal and non-metal materials. It meets the requirements of the national technical supervision department for test technology. It is widely used in plastic film, food, and pharmaceutical manufacturers to test products quality control and testing institutions, scientific research and teaching experiments in university.

## **Test principle**

Fix the processed sample between the two chucks of the fixture, start the instrument to make the two chucks move relative to each other, the force sensor located on the movable chuck collects the force value changes during the test, and the built-in displacement sensor of the machine The displacement changes are collected to calculate the tensile, peeling, heat sealing, tearing and other performance indicators of the sample.



**Tensile test principle diagram**

## Standard

ASTM D828, ASTM E4, ASTM D882, ASTM D1938, ASTM D3330, ASTM F904, JIS P8113, QB/T 2358, GB 8808, GB 13022, GB/T 1040, GB 4850, GB/T 7753, GB/T 7754, GB/T 453, GB/T 17200, GB/T 16578.1, QB/T 1130, GB/T 2791, GB/T 2790, GB/T 2792, GB/T 7122, GB/T 10004, GB/T 17590, JJG 139, GB/T 6344, GB 10808, YBB 00112003, YBB 00102003, YBB 00132002, YBB 00202004

## Specifications

Item	Technical parameters
Test force range	0~300 N(Option 0~500 N), 1250% Elongation
Test accuracy	Within $\pm 0.1$ %FS of the displayed value(Level 1)
Test Speed	1~500 mm/min(infinitely variable speeds)
Displacement accuracy	Within $\pm 0.1$ % of the displayed value
Test width range	30 mm (can be customized for 50 mm)
Effective test distance	750 mm (can be customized for 1000 mm)
Instrument Size	L×W×H: 475 mm×460 mm×1430 mm
Weight	76.5 kg
Powerful	AC 220 V, 50 Hz

## Features

### ◆ **Elegant and convenient body design.**

The table-type column structure is beautiful and exquisite, and the operation is easy and natural while sitting.

### ◆ **Muti function and high efficient test methods**

Can do stretching, peeling, heat sealing, tearing and other tests; width, speed, thickness, clamping distance multi-parameter variable setting. High sampling rate (100 times/second), the test data is accurate and reliable.

### ◆ **Safe and high-end mechanical structure**

Three-level safety protection, installed emergency stop switch to ensure safety and adopted the imported core components , with high precision and long service life, LCD screen displays test data and working status.

### ◆ **Intelligent operating system**

It can realize user management, authority management and audit trail, and complies with the requirements of GMP appendix "Computerized System".






The parameters of the test process can be set flexibly to meet the requirements of non-standard tests and scientific research tests.

It can be tested independently from the computer, the data can be processed automatically, and the built-in micro-printer can print the data in real time. The instrument is equipped with a computer interface, and can also be connected to a computer for online detection.

### ◆ **Laboratory Intelligent IOT Platform**

It is support that access to the laboratory intelligent IOT platform, can realize the functions of managing experimental data, remote diagnosis and troubleshooting.

## Application

	Plastic Film	It is suitable for stretching, peeling, heat sealing, tearing and other performance tests of plastic films, composite materials, flexible packaging materials, tapes and other products.
	Composite film bag	It is suitable for tensile, peeling, heat sealing, tearing and other performance tests of composite films, co-extrusion films, composite bags, retort bags, aluminum-plastic composite bags and other products.
	Paper	It is suitable for tensile, peeling, heat sealing, tearing and other performance tests of paper, kraft paper, facial tissue, toilet paper and other products.
	Medical patch	It is suitable for stretching, peeling, heat sealing, tearing and other performance tests of medical cold compresses, plasters and other products.
	Pressure Sensitive Tape	It is suitable for stretching, peeling, heat sealing, tearing and other performance tests of cellophane tape, electrical insulating tape, medical zinc oxide adhesive plaster and other products.

## Configuration

Spare parts	Host, stretching fixture, power cord, stepping motor, synchronous belt structure, intelligent stretching control system, professional sensor
User-supplied	Computer (Windows system)

Note: GBPI has always been committed to the innovation and improvement of product performance and function. For this reason, product technical specifications and appearance will also be changed accordingly. The above situation will not be notified. Our company reserves the right of modification and final interpretation.