

GBM-D1

Intelligent Leakage Tester

广州标际包装设备有限公司

Guangzhou Biaoji packaging equipment Co., Ltd

Introduction

Intelligent Leakage Tester uses the working principle of pressurizing samples to test the sealing strength and integrity of packaging materials. It is suitable for food and medicine packaging materials such as flexible, rigid, porous and laminated aluminum foil. There are a variety of test modes, which can comprehensively evaluate the tightness and integrity of packaging materials. It has wide applicability, complete functions and accessories, which is comply with ASTM, ISO and GB standards. At the same time, our company provides suitable accessories and services for different samples.

The sealing integrity of packaging is crucial in many industries. For example, for medical industry, it can maintain the sterility of the product; for pharmaceutical industry, it can meet the standards and protect the effectiveness of the product; for food industry, it can ensure food safety and maintain freshness. Our Intelligent Leakage Tester GBM-D1 is an upgraded version of the existing sealing instrument products, which can support multiple test modes and meet the different test requirements of different products at one time



Standards

- ASTM F1140 Blasting and creep of flexible barrier packaging (unconstrained)
- ASTM F2054 Rupture testing (with limit plate)
- ASTM F2095 Pressure decay leak testing (without restriction or with restriction plate)
- ASTM F2096 Bubble leak testing (with water tank)
- ISO 11607 Packaging of terminally sterilized medical devices

- YY/T 0681.3 Sterile medical device packaging test methods
Part 3: Unconstrained packaging resistance to internal pressure damage
- YY/T 0681.5 Sterile medical device packaging test methods.
Part 5: Internal pressure method to detect gross leaks (bubble method)
- YY/T 0681.9 Sterile medical device packaging test methods. Part 9: Air pressure method inside the restraint plate flexible packaging seal burst test.
- GB/T 17876 Packaging container Plastic anti-theft bottle cap

Testing Principle

Using destructive air pressurization methods (pressurization to burst or pressurization to specified pressure) to test the package tightness. The test methods can be implemented according to different standards including burst testing, leakage testing, creep testing, and air bubble testing. The test result can be expressed in a combination of testing pressure, holding time, testing package location, leakage location, etc.

Testing Method

Bursting testing: The instrument keeps increasing the pressure on the package until the package bursts. (Conform to ASTM F1140, ASTM F2054, YY/T 0681.3, YY/T 0681.9 standards).

Leakage testing: After inflating the package, it reaches a preset pressure and maintains the required test time under this pressure. Pressure management and leakage test are carried out according to the standard. Unconstrained or restricted plate test conditions can be selected. (Conform to ASTM F2095, ISO 11607-1 standards)

Creep testing: Under generate a constant pressure in the package, package closes to the burst limit, and keep it for a certain period of time, and evaluate the sealing performance when under pressure within the set time. Optional testing mode: creep and creep to failure (in accordance with ASTM F1140, YY/T 0681.3 standards).

Bubble testing: Put the package in water, then pressurize the package to a predetermined

pressure, and maintain the predetermined pressure for a predetermined time (in accordance with ASTM F2096, YY/T 0681.5 standards).

Technical Parameters

The internal volume of the packaging bag	0-90000 mL
Testing Time	1~1000 s
Testing Range	1~1000 KPa
Resolution Ratio	0.1KPa
Testing Accuracy	0.5%FS
Specifications & Weight	400*415*272 mm (L x W x H)、within 5 kg
Outside Temperature	Operating Temperature: +2℃至+25℃, Storage Temperature -20℃至+60℃
Relative Humidity	+2℃~+25℃: 10%~90%RH, +25℃~+30℃: 10~70%RH; +30℃+35℃: 10~50%RH (No condensation)
Environmental Pressure	90.0 – 105.0 KPa
Power supply and consumables	100-240 VAC, 47-63 HZ Max power 140 W
Input pressure and connection	50-1000 Kpa, φ 6/4 mm
Gas flow	Main road automatic control: 0-10 L/min, Bypass manual control: 0-100 L/min
Connection	USB: 1 个 USB 2.0 Type A

Features

- ◆ The testing range is wider, and optional tests: blasting, leakage, creep, creep to blasting, and bubble testing functions.
- ◆ The packaging capacity is large, and the package up to 90L can be inspected.

- ◆ A variety of performance tests can be implemented, and leakage, sealing and blasting performance can be detected simultaneously in one test.
- ◆ Needle-type test head and hand-held test head are optional.
- ◆ The results are fast (1-1000 s).
- ◆ Data collection can be selected as required, and bar code scanner or label printing can be selected.
- ◆ Easy to use operation interface and timely data analysis.

Application Field



Foil Bag



Mask Packaging Bag



Mask Bag



Instant Noodle Packaging



Milk Powder Packaging bag



Soy Milk Packaging Bag

Service Pledge

- ◆ Provide free packaging inspection technical support.
- ◆ The instrument has a one-year warranty, free software upgrade service, and free

lifetime technical support.

- ◆ Free to come to the factory to train equipment operation, qualified candidates will be awarded a diploma, and board and lodging will be provided free of charge.
- ◆ Instrument "replace the old for new" policy, and provide backup instruments for use in the event of failure.
- ◆ A testing center (CNAS L8185) is set up to provide customers with sample testing and sample data comparison services.

Set up a reference material development center to provide customers with instrument calibration services.



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Company Profile

Guangzhou Biaoji Packaging Equipment Co., Ltd. was established in 2002 and is headquartered in Guangzhou Economic Development Zone. It is a company that integrates R&D, production and sales of packaging testing equipment, packaging equipment, biodegradable, modified atmosphere preservation equipment and other products, and provides third-party testing and standards. The companies that are involved in material proficiency testing have provided the most competitive laboratory construction solutions for more than 10,000 enterprises and institutions in more than 40 countries and regions around the world, with services covering quality inspection and drug inspection institutions, scientific research institutions, packaging, printing, food, Pharmaceutical, daily chemical, chemical, new energy, new materials and other fields.

After more than ten years of efforts by Biaoji people and the support of our customers, the scale of production and operation and product quality have reached the leading level in the country. The company has an advanced R&D team, large factories, three marketing centers, CNAS certification laboratory, inspection and testing agency qualification (CMA), national standard material development center, etc., Standard will always play the role of a leader in packaging solutions for customers. Work hard to provide quality products and services!