



Application

Evaluating the integrity through pressure decay (internal pressurization) leak testing is essential to confirm the sample's ability to deliver the necessary product protection. Seal integrity tests are conducted to evaluate options for sustainable packaging, cost-effective packaging solutions, and potential fluctuations in sealing parameters along the production line. Ensuring the consistency and reliability of package seals remains of great importance for upholding product quality and safety standards.

Various Ways of Leak Test

ASTM Norm	Method	Used For	Our Solution
D3078	Bubble Emission	MAP, gas filled, liquid filled, etc	LT-01, T-02, LT-03
D4991	Bubble Emission	Empty Rigid Containers	LT-01, LT-02, LT-03 modified
F2096	Pressurization	Gross Leaks	GLT-01
F2338	Vacuum Decay	Flexible pack, rigid containers	MLT-01
F2054/F1140	Pressure Decay	Flexible, rigid, tube, etc	LSST-01

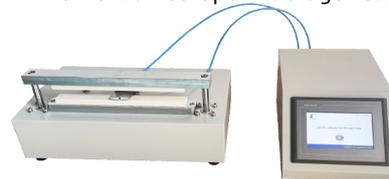
Test Method

Pressure decay is a highly prevalent technique for conducting leak testing. This method involves monitoring the reduction in pressure within the sample. Initially, the sample is pressurized to a specified target level, after which the air source is sealed. Subsequently, any decrease in pressure is detected and serves as an indicator of a potential leak. The analysis of sample performance can be approached in three ways: burst testing, creep testing, and creep-to-failure testing.

Unrestrained Closed Package Test



Unrestrained Open Package Test



Technical Features

1. PLC-controlled unit for industrial-level stability, with user-friendly HMI touch screen operation.
2. Automatic test result statistics and storage.
3. Compatible with various fixtures for testing different package forms, including open packages (three-side-seal), closed packages, doy packs, tubes, sealed trays, and cups, among others.
4. Offers three test modes: burst, creep, and creep to failure.
5. Personalized sensitivity and threshold settings.
6. Pressure range goes up to 600KPa and can be customized.
7. Customizable programming to meet specific testing requirements.

Main Parameters

Test Range	0~600KPa
Sample Width	300mm (standard)
Inflating Head	Φ4mm
Compressed Air	0.4~0.7MPa (Prepared by user)
Power	110~220V 50/60Hz



Restraining Plates

Jigs Available

The LSST-01 can work with many standard and customize jigs for different applications and sample forms, such as sachet, bag, pouch, tube, bottle, doy pack, cell battery, jumbo bag, etc.



The Company reserves the right to update, modify, or amend this Catalog without prior notice.

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