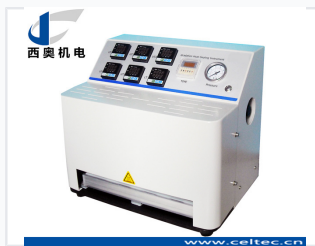


# Gradient Heat Sealing Tester

The Gradient Heat Seal Tester precisely measures five groups of sealing temperature, time and pressure. It determines the heatsealability of films, laminates, composites, and polymers, expressing seal strength as a function of sealing conditions.



## ADDITIONAL IMAGES



## Overview

### Precision Heat Sealing Analysis

The Gradient Heat Sealing Tester is a specialized laboratory instrument designed for determining optimal heat sealing parameters in flexible packaging materials. Featuring five independent temperature zones, it allows for the simultaneous measurement of multiple sealing temperatures in a single test cycle. With precise control over dwell time, sealing pressure, and temperature via PID regulation, this device ensures consistent, repeatable results for quality control and research applications in food, pharmaceutical, and industrial packaging.

## Performance Specifications

Temperature Range	300 °C
Temperature Deviation	0.2 °C
Dwell Time Range	0.1s - 990h
Sealing Pressure Range	0.15 - 0.7 MPa

## Design & Construction

### Sealing Jaws Configuration

**40 mm**  
Jaw Length

**10 mm**  
Jaw Width

**5 groups**  
Jaw Count

Heating System	Double Heating, Upper Jaw Heating, Lower Jaw Heating, PID Control
Dimensions (L x W x H)	455mm x 320mm x 440mm
Required Gas Pressure	0.7 MPa

## Compliance

### Applicable Standards

- QB/T 2358
- YBB 00122003

## Key Features

### Core Functionalities

- Five-group simultaneous temperature testing
- Proximity and pressure sensor control
- Uniform heating via aluminum encapsulated jaws
- Customizable jaw dimensions and surface shapes