

Lab Heat Sealer Pro

Model: L0001-PRO & L0001-PRO-S

a measurable difference...

IDM[®]

instruments

An economic Laboratory Heat Sealer to help determine the sealing parameters of film, laminated films, coated paper and other flexible barrier materials.

The IDM Lab Heat Sealer is used to measure the heat sealability of the web surface or sealant layer of materials. Short dwell time web sealability can also be performed on the LHS. This is a test seal that is made at a dwell time shorter than required for the sealing surface to reach the jaw temperature level, simulating conditions on high-speed vertical form-fill machines or slower machines where the condition of non-equilibrium also exists.

Criteria of judging heat sealability is the strength of the actual heat seal. Parameters include heat seal temperature, dwell time and the pressure of the heat seal for materials that have different melting points, heat stability, fluidness and thickness; all of which could vary the heat seal properties.

Sealing is initiated by a foot switch, and a pneumatic cylinder is used to lower the Upper Sealing Bar. The timer is then used to determine the length of time the Sealing Bars will be in contact with the sample at the set sealing pressure. Producing repeatable and reliable test samples.



Applications:

- Flexible Packaging
- Plastic Films
- Plastic Laminates
- Coated Paper

Benefits:

- Easy to use
- Fast results
- Accurate

Features:

- Accuracy of temp over 180mm (W) $\pm 5^\circ$
- Auto tune temp function
- Sealing Bars
- Exceptional Parallelism
- Adjustable Sealing Pressure
- Sealing Time variable by timer setting 0 - 999.9s
- Maximum sealing force at 80psi - 280kg per 10cm²
- Safety Guard

Standards:

- ASTM F2029
- ASTM F88



Standard Models

L0001-PRO

- 5mm x 180mm **Interchangeable** Teflon-coated Sealing Bars
Heated upper and lower sealing bars are interchangeable to different sizes
- Temp Range: Ambient to 300 °C
- Variable Sealing Time via Timer
- Variable Sealing Pressure with Gauge
- Footswitch
- Clear Guards

L0001-PRO-S

- 5mm x 180mm **Non-interchangeable** Heated Teflon-coated upper sealing bar with lower silicon sealing bar
Sealing bar sizes must be determined prior to ordering
- Temp Range: Ambient to 300 °C
- Variable Sealing Time via Timer
- Variable Sealing Pressure with Gauge
- Footswitch
- Clear Guards

Purchasable Options

L0001-PRO

- 5 x 180mm FLAT Sealing Bars
- 10 x 180mm FLAT Sealing Bars
- 10 x 180mm WAVE Sealing Bars
- 25 x 180mm FLAT Sealing Bars

25 x 180mm Silicon Bars

Custom made bars

Extended Sample Support

L0001-PRO-S

- 5 x 180mm FLAT Sealing Bars
- 10 x 180mm FLAT Sealing Bars
- 25 x 180mm FLAT Sealing Bars

Sealing bar sizes must be determined prior to ordering

Custom made bars

Extended Sample Support

Connections:

- **Air:** 80psi maximum
- **Electrical:** 220/240 VAC @ 50Hz or 110 VAC @ 60 Hz
please specify when ordering

Dimensions:

- **H:** 400mm
- **W:** 350mm
- **D:** 350mm
- **Weight:** 25kg



Related Items:

- Use Mark-10's ESM303 Motorised Test Stand with the G1008 Peel Fixtures for testing the seal strength after using IDM's Lab Heat Sealer.