

Lab Heat Sealer PRO

Model: L0001-PRO-S

a measurable difference...



A professional 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 heatsealability 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 heatsealability 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, a pneumatic cylinder is used to lower the Upper Sealing Bar to seal. 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

Standard Features:

- Accuracy of temp Ambient to $300^{\circ}\text{C} \pm 1^{\circ}$
- Accuracy of temp over 180mm (W) $\pm 5^{\circ}$
- Auto tune temp function
- Heated Teflon coated upper sealing bar and lower silicon sealing bar (not interchangeable to different sizes)
(sealing bar sizes must be determined prior to ordering)
- Exceptional Parallelism
- Adjustable Sealing Pressure
- Sealing Time variable by timer setting 0 - 999.9s
- Maximum sealing force at 80psi - 280kg per 10cm²
- Foot Switch operation
- Safety Guard



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IDM[®]
instruments

Benefits:

- Easy to use
- Fast results
- Accurate



Standards:

- ASTM F2029
- ASTM F88

Options:

- 5mm x 180 mm Flat Sealing Bars
 - 10mm x 180 mm Flat Sealing Bars
 - 25mm x 180 mm Flat Sealing Bars
 - Lower Silicon Flat Sealing Bar
 - Custom made bars
 - Extended sample support
- (sealing bar sizes must be determined prior to ordering)*

Connections:

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

Dimensions:

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

Related Items:

- Use Mark-10 Motorised Test Stand with Peel Fixtures for testing the seal strength after using IDM's LHS. More information can be downloaded from IDM's website.

