

Model DS-2100 Film Shrinkage Tester for Plastic Film

Full-Featured Tester for Determining Percentage Dimensional Shrinkage



The Model DS-2100 Film Shrinkage Tester.

Based on the temperature-controlled, hot-plate design, the Model DS-2100 offers a safer alternative to conventional hot-oil bath systems, and a faster and more precise alternative to conventional ovens for shrink film analysis and testing.

With hot plate temperatures controlled to ± 0.3 C, and temperature stability achieved in 15 minutes or less, the DS-2100 provides a useful quality tool for determining performance characteristics and Temperature vs. Shrinkage profile analysis of your shrink film products.

The Oakland Advantage

ASTM and ANSI Reference Standards

ASTM D2732-14 (Reference only) Unrestrained Linear Thermal Shrinkage of Plastic Film and Sheeting (Constant-Temperature Liquid Bath, 0.030 in. thickness or less)

ANSI ISO 11501-95 (Reference only) Determination of Dimensional Change on Heating Plastic Film and Sheeting (Circulating-Air Oven, 1 mm thickness or less)

Advanced Technical Features in Each Model

Easy, Error-Free Operation

The DS-2100 has been designed to give accurate, repeatable results for the Quality Control analysis of:

- Internal Stresses, locked in the film and released by this test.
- Percentage Shrinkage of "Shrink Film"

Offering Dimensional Shrinkage with Advanced Features Testing

Hot-plate temperature controlled to ± 0.3 deg. C

Temperature stability achieved in 15 minutes

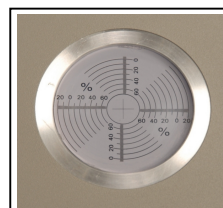
Count down LCD timer

Back-lit, scaled, cooling area

Direct read-out of percentage shrinkage

Industry-Leading Correlation Data

The DS-2100 provides a useful quality tool for determining performance characteristics and Temperature vs. Shrinkage profile analysis of your shrink film products. Factory preset operating temperature range of 70 - 300 deg. F.



Top-loading Hot-Plate with protective flip-up heat shield, simply set film samples on top of hot-plate for shrinkage testing (Shown at left). Easy-to-read backlit measurement grid for measuring shrinkage of samples after removing from hot-plate (Shown above).

Oakland Instrument Corp.

Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, packaging, and paper industries.

Customer-Driven

We team with our customers to help them solve their quality- and process-control problems.

Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry-leading technology.

Specifications

Model DS-2100

Mode of operation:	Off-line testing / lab use
Materials:	All plastic film and plastic sheet materials
Measurement Range:	50 mm Round Sample Size 0 - 120 % Shrinkage Scale ranges available
Resolution:	1% Shrinkage
Accuracy:	+/- 0.5% Shrinkage
Backlit, Sealed Cooling Area:	2.50 inch dia. (6.4 cm dia.)
Aluminium Hot Plate:	With hinged protective grille
Heater Element:	250 Watts, 115V 60 Hz.
Temperature Controller:	PID. Auto-tune. 0-400 deg. C 110-240V/50-60 Hz. With discrete levels of access. 70 - 300 deg. F factory preset operating temperature range
Display:	LCD. Set point and Actual temperatures, visual at the same time.
Sensor:	3-wire RTD BS1904 100 ohms at 0 deg Centigrade DIN 43760-1980
Timer:	Lapse timer with alarm. Registers overshoot
Cooling Area:	Sealed for containing surplus oil
Switch:	Back light for measuring disc
Measuring Disc:	Scaled for direct measurement in percentage
Fan:	Cooling. 115 V
Fuse:	250mA with spare in socket holder
Power Supply:	115 V 60 Hz or 240 V 50 Hz
Serial Data Communications:	N/A
Power Requirements:	115 VAC, 60 Hz, 230 VAC, 50 Hz or consult factory for special requirements
Dimensions (W x D x H, Instrument Only)	4 x 12 x 11 inch (100 x 305 x 260 mm)
Dimensions (W x D x H, Shipping)	16 x 16 x 16 inch (41 x 41 x 41 cm)
Weight (Instrument Only)	5 lb (2 kg)
Weight (Shipping)	8 lb (3.5kg)

(Due to continuous product improvement, all specifications are subject to change without notice.)

Ordering Information

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