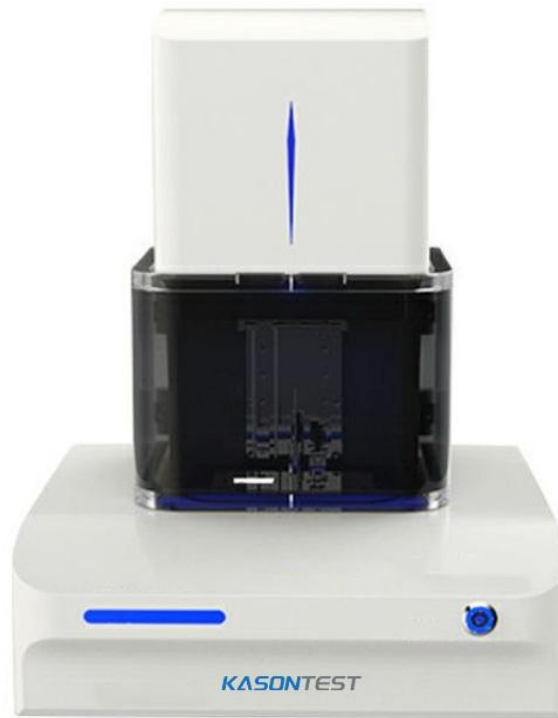


Film Heat Shrinkage Tester



Product instruction

Film Shrinkage test, known as linear thermal shrink test or free shrink test, is used for analyzing the effect of temperature on heat shrinkable films made from polyethylene, ethylene copolymers and their mixtures. Basically, shrinking force, contracting force and shrinking ratio can be measured in such determination.

GBPI Film Shrinkage tester conforms to the multiple national and international standards:

* ASTM D2732 - Standard Test Method for Unrestrained Linear Thermal Shrinkage of Plastic Film and Sheeting

* ISO 14616 - Plastics -- Heatshrinkable films of polyethylene, ethylene copolymers and their mixtures -- Determination of

shrinkage stress and contraction stress

* DIN 53369 - Testing of plastic films -- determination of the shrinking stress

Film Shrinkage Test Equipment is used to determination of the degree of unrestrained linear thermal shrinkage and dimensional stability at different temperatures. Widely used in industries of plastic material, plastic products, petroleum, chemicals, research institute, inspection agency and so on.

Principle

This tester uses the principle of air heating to connect the tested sample to the tension sensor and displacement sensor. After reaching the maximum shrinkage force, it is placed in an external test environment with an ambient temperature of $23^{\circ}\text{C}\pm 2^{\circ}\text{C}$ to cool down. The reference temperature, shrinkage force and displacement are recorded, and the recorded data can be used to determine the

optimal shrinkage conditions of the film.

Standards

ISO 14616-1997, DIN 53369-1976, ASTM D2732

Main Specifications

Technical Specifications	
Item	Technical parameters
Sensor Specifications	5 N(standard) 10 N,30 N(optional)
Contraction force accuracy	Display value $\pm 0.5\%$ (10%-100% of sensor specification) $\pm 0.05\%$ FS(0%-10% of sensor specification)
Display resolution	0.001 N
Displacement measurement range	0.1~70 mm
Displacement sensor accuracy	± 0.07 mm
Shrinkage measurement range	0.1%~95%
working temperature	room temperature~210℃
temperature fluctuation	± 0.2 ℃
temperature accuracy	± 0.5 ℃(Single point calibration)
Number of workstations	1 Set(two stations)
Sample size	110 mm×15 mm(Standard size)
Dimensions	480 mm(L)×400 mm(W)×630 mm(H)
Power supply	220VAC $\pm 10\%$ 50Hz/120VAC $\pm 10\%$ 60Hz
Net weight	26 kg

FOCUS IN MATERIAL TEST

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