

Pneumatic Fabric Stiffness Tester ASTM D4032

This pneumatic fabric stiffness tester measures the stiffness of fabrics. It uses a pneumatic system to apply force and determine the fabric's resistance to bending.



Overview

Precision Fabric Stiffness Testing

This pneumatic stiffness tester is designed to accurately measure the bending performance of various materials, including woven, knitted, and non-woven fabrics, as well as paper, leather, and films. By utilizing an infrared beam for non-contact detection, it eliminates measurement errors caused by specimen tilting, ensuring reliable results for crispness, drape, and softness analysis. The system features an automatic sample pressure plate for consistent positioning, significantly enhancing testing efficiency and accuracy in quality control environments.

Standards & Compliance

Applicable Standards

ASTM D4032, GB/T 18318.1-2009, ZB W04003-87

Technical Specifications

1. Instrument measurement angle	41 ° 30 ', 43 °, 45 ° adjustable
2. Extension length range	0.5cm-20cm (special requirements can be made in the order)
3. Numerical display resolution	0.01cm
4. Measurement accuracy	± 1%
5. Specimen specifications	2.5cm × 20cm
6. Work platform specifications	5cm × 20cm
7. Sample pressure plate specifications	2.5cm × 20cm
8. Sample pressure plate speed	0.3 ~ 0.5 cm / s (special requirements can be made at the time of order)
9. Rated power	45W
10. Power	single-phase 220V 50Hz
11. Host volume	425mm × 250mm × 380mm
12. Host Weight	16.5Kg

The pneumatic fabric stiffness tester, featuring automatic pressure plate control and infrared detection for high-precision material testing.

Key Performance Metrics

0.01 cm

Display Resolution

1 %

Measurement Accuracy

45 W

Rated Power

Operational Parameters

Parameter	Specification
Measurement Angles	41° 30', 43°, 45° (Adjustable)
Extension Length Range	0.5 - 20 cm
Pressure Plate Speed	0.3 - 0.5 cm/s
Power Supply	Single-phase 220V 50Hz

Dimensions & Weight

- Host Dimensions: 425mm x 250mm x 380mm
- Host Weight: 16.5 Kg
- Specimen Size: 2.5cm x 20cm
- Work Platform Size: 5cm x 20cm
- Pressure Plate Size: 2.5cm x 20cm

Features

Key Features

- Infrared beam 'stealth' detection for non-contact measurement
- Automatic sample pressure plate landing for consistent positioning
- Adjustable measurement angles for flexible testing
- Suitable for textiles, paper, leather, and film