

Digital Pneumatic Fabric Stiffness Tester

This instrument measures fabric bending performance, an important physical parameter related to crispness, drape, and softness. It uses bending length and bending stiffness to express a fabric's resistance to changes in shape.



Overview

Professional Fabric Stiffness Analysis

The Digital Pneumatic Fabric Stiffness Tester is a precision instrument designed to evaluate the bending performance, drape, and softness of textiles. By measuring bending length and stiffness through a slope cantilever method, it provides a quantitative assessment of a material's resistance to deformation. This automated system is essential for quality control in industries working with woven, knitted, and non-woven fabrics, as well as leather and film.

Key Features

Detection Technology

- Infrared beam 'stealth' detection slope for non-contact measurement
- Adjustable measurement tilt angles
- Automatic detection system to enhance anti-jamming
- Pneumatic sample pressure plate with automatic landing for consistent positioning

Measurement Performance

Performance Metrics

0.01 cm

Display Resolution

1 +/- %

Measurement Accuracy

45 W

Rated Power

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

Measurement Angles 41° 30', 43°, 45°

Extension Length Range 0.5cm - 20cm

Pressure Plate Speed 0.3 ~ 0.5 cm/s

Physical Dimensions

Component Specifications

Component	Dimensions
Specimen Size	2.5cm x 20cm
Work Platform	5cm x 20cm
Pressure Plate	2.5cm x 20cm
Host Volume	425mm x 250mm x 380mm

Host Weight	16.5 Kg
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Compliance & Standards

Testing Standards

- GB / T18318.1-2009
- ZB W04003-87

Certifications

CE • ISO 9001:2000

Applications

Compatible Materials

Cotton, Wool, Silk, Linen, Chemical Fiber, Knitted Fabrics, Non-woven Fabrics, Coated Fabrics, Paper, Leather, Film

Power Requirements

Power Supply

Single-phase 220V 50Hz