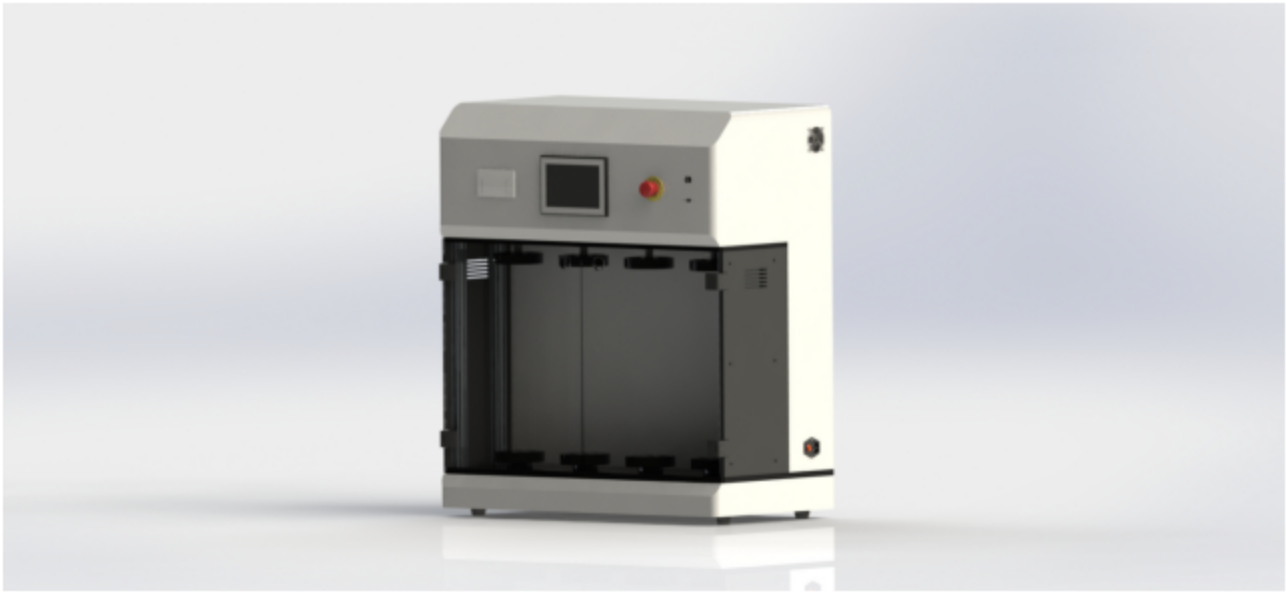
KASON-TFKT45 Film Flex Durability Tester



Product Introduction:

The KASON-TFKT45 Film Flex Durability Tester is designed for assessing the flex durability of plastic films and composite films. It is suitable for testing the flex performance of various film materials—such as the composite films used in food and pharmaceutical packaging, aluminized films, aluminum-plastic composite films, nylon films, coated films, and other flexible film materials.

Testing Principle:

The instrument simulates the flexing, creasing, and compressive stresses that films undergo during manufacturing, processing, and transportation. Upon completion of the flex test, the material's resistance to flexing is determined by analyzing changes in pinhole count or barrier properties before and after the test; this provides quantitative data to support packaging design and practical application decisions.

This instrument complies with international standards: ASTM F392 and GB/T 41347-2022 (Test Method for Flex Durability of Flexible Packaging Materials).

Product Features:

1. The device features five standard test modes and is equipped with four independent specimen stations, allowing for the simultaneous execution of various test condition combinations. It supports rapid switching between long and short stroke lengths, significantly enhancing testing efficiency and flexibility.

2. Driven by a high-performance servo motor, the system ensures precise control and reliable positioning, thereby effectively guaranteeing the repeatability of the testing process and the accuracy of the results.

3. The system incorporates a dual hardware and software safety protection mechanism, along with an intelligent automatic reset function, to comprehensively safeguard operational safety.

4. The device utilizes a microcomputer control system featuring a high-resolution LCD touch screen display. Combined with a menu-driven interface and a PVC control panel, the interface is intuitive and user-friendly, allowing users to quickly configure and execute test tasks.

5. An integrated micro-printer enables the instant printing of test data, facilitating the real-time recording

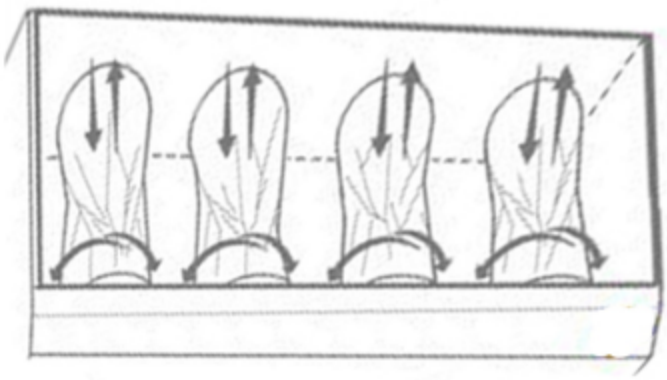
and archiving of results to improve data management efficiency. (1) Mode A (Stroke: 155 mm; Angle: 440°; Cycle Count: 2700)

(2) Mode B (Stroke: 155 mm; Angle: 440°; Cycle Count: 900)

(3) Mode C (Stroke: 155 mm; Angle: 440°; Cycle Count: 270)

(4) Mode D (Stroke: 155 mm; Angle: 440°; Cycle Count: 20)

(5) Mode E (Stroke: 80 mm; Angle: 400°; Cycle Count: 20)



——Schematic Diagram

Technical Parameters:

Item: KASON-TFKT45 Film Flexing Tester

Flexing Frequency: 45 cycles/minute

Flexing Angle: 440° (at 90 mm stroke) or 400° (at 80 mm stroke)

Horizontal Stroke: 155 mm or 80 mm

Number of Stations: 4 stations

Number of Specimens: 1 to 4 pieces

Specimen Dimensions: 280 mm x 200 mm

Overall Dimensions: 850 mm x 450 mm x 990 mm

Statistical Capacity: 200 data sets

Data Output Method: Standard micro-printer; Standard USB drive data export; Optional PC-based output

Overall Dimensions: 860 mm (L) × 460 mm (W) × 720 mm (H)

Power Supply: 220 VAC 50 Hz / 120 VAC 60 Hz

Net Weight: 95 kg

※ Note: For users with special requirements, our company is able to provide customized manufacturing services within our capabilities to meet specific user needs.

Product Configuration:

Standard Configuration: Main unit, micro-printer, specimen clamps/fixtures, accessory tools, power cord,

technical documentation.

Optional Accessories: Professional software, communication cable.

FOCUS IN MATERIAL TEST

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