PARAM® FDT-02 Flex Durability Tester

FDT-02 is professionally applicable to the determination of flex durability of flexible films, composite films and coating films. The instrument can simulate the kneading and creasing behaviors of films happened during production, processing and transportation. The flex durability would be obtained by measuring the changes in number of pinholes or barrier properties after test, which could provide quantitative basis for package design and practical usage.

Professional Technology

- 5 standard test modes and 4 specimen stations support various combinations of non-standard test conditions
- Quick switch between long and short strokes improves the test efficiency
- Application of servo motor further ensures the accuracy of test results
- Dual protection for hardware and software as well as auto reset provides a safe operating environment for customers
- The instrument is controlled by micro-computer, with LCD, menu interface and PVC operation panel
- Equipped with micro-printer for convenient data transfer

Test Standards

This instrument conforms to the standard: ASTM F392

Applications

This instrument is applicable to the determination of flex durability of:

Basic Applications	Flexible Films, Composite Films and Coating Films	Including plastic films, sheets and composite films e.g. composite films, aluminized films, aluminum plastic composite films, nylon films and coating films for food or drug packages
	Paper Materials	Test the flex durability of paper materials

Technical Specifications

Specifications	FDT-02
Flex Frequency	45/minute
Tensile & Pressing Force	300 N
Torque	2 Nm
Specimen Thickness	≤0.3mm (Sample clamps are needed for other thickness specimen)
Flex Angle	440 ℃r 400 °

Labthink Instruments Co., Ltd. 144 Wuyingshan Road, Jinan, P.R.China (250031) Phone: +86-531-85068566 FAX: +86-531-85062108
Labthink International, Inc. 200 River's Edge Drive, Medford, MA, 02155, U.S.A. Phone: +1-617-830-2190 FAX: +1-781-219-3638
www.labthink.com

Horizontal Stroke	155 mm or 80 mm
Number of Stations	4
Number of Specimens	1 ~ 4[Note]
Specimen Size	280 mm x 200 mm
Instrument Dimension	715 mm (L) x 415 mm (W) x 645 mm (H)
Power Supply	AC 220V 50Hz
Net Weight	85 kg

Note: Multiple specimens share the tensile & pressing force and the torque.

Configurations

Standard Configurations	Mainframe, Micro-printer, Stainless Steel Positioning Ring
Optional Parts	Sample Cutter and Hose Clamp 64（91mm~114mm）

Please Note: Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.labthink.com for the latest updates. Labthink reserves the rights of final interpretation and revision.