

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:

<b>Basic Applications</b>	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° or 400°

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

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

## Configurations

<b>Standard Configurations</b>	Mainframe, Micro-printer, Stainless Steel Positioning Ring
<b>Optional Parts</b>	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](http://www.labthink.com) for the latest updates. Labthink reserves the rights of final interpretation and revision.