

RTT-01 Flex Durability Tester

Brief Introduction

RTT-01 Flex Durability Tester 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 can be obtained by measuring the changes in number of pinholes or barrier properties after test, which can provide quantitative basis for package design and practical usage.



Technical Features

- ◆ Six standard test modes including condition A, B, C, D, E and F
- ◆ High-frequency data acquisition system, up to 500 times/s to ensure accurate data collection
- ◆ High-performance servo motors with closed-loop feedback to ensure full functionality of testing
- ◆ Four stations improve the testing efficiency
- ◆ Equipped with micro-printer that can print number of experiments, patterns, etc.
- ◆ 7-inch HD color LCD touch screen, test parameters are displayed in real time
- ◆ Fast switch between long and short stroke

- ◆ With automatic data storage, statistical analysis, power-down automatic memory and other functions, convenient for users to manage data
- ◆ Storage up to 5000 test records
- ◆ Testing environment temperature and humidity are displayed in real time and automatically recorded for data comparison
- ◆ Equipped with an emergency stop button to ensure the safety of the test equipment

Applications

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

Item	RTT-01
Flex Frequency	45 cpm
Test Mode	Condition A (2700 cycles), Condition B (900 cycles), Condition C (270 cycles), Condition D (20 cycles), Condition E (20 cycles partial flex), Condition F (0~20000 cycles)
Tensile & Pressing Force	300 N
Torque	2 Nm
Specimen Thickness	≤ 3 mm (Sample clamps are needed for other thickness specimen)
Flex Angle	440° / 400°
Horizontal Stroke	155 mm / 80 mm
Number of Stations	4
Number of Specimens	1 ~ 4

Specimen Size	280 mm x 200 mm
Instrument Dimension	800 mm (L) × 450mm (W) × 680mm (H)
Power Supply	220VAC±10% 50Hz
Net Weight	120 kg

Standards

ASTM F392

Configuration

Standard Configuration	Instrument, Adjustable Positioning Ring, Micro-printer
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Technical specifications are subject to change without further notice. Please visit our website at www.horizontester.com for latest information.