

GM-4 Coefficient of Friction Tester



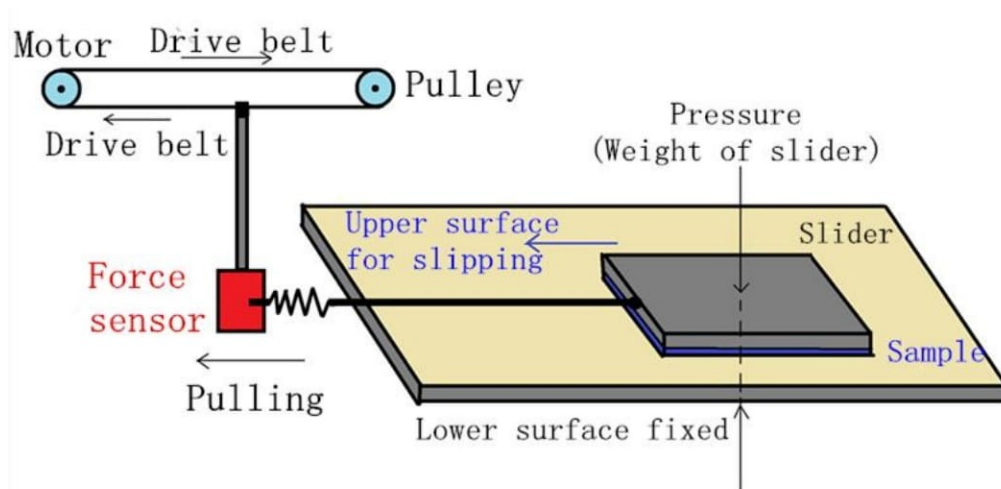
Introduction

The coefficient of friction tester GM-4 is a measuring instrument developed and manufactured by the Guangzhou Biaoji R&D team based on various test standards of GB, ISO, ASTM and market demand. The measured friction coefficient determines the smoothness and opening difficulty of the film, and uniformity can be accurately determined, so as to correctly guide the production.

It is suitable for measuring the static friction coefficient, dynamic friction coefficient and peel strength of plastic films, composite films, aluminum foils, aluminized films, plates, rubber, ceramics and other materials when sliding.

Test Principle

Use a clamp to clamp the strip test sample, and wrap the slider with the sample to be tested, and then place the slider on the hanging hole of the sensor. Under a certain contact pressure, the conveyor belt is driven by the motor to move the force sensor. , that is, to move the two test surfaces relative to each other. The force signal measured by the force sensor is amplified by the integrator and sent to the recorder, and the kinetic friction coefficient and the static friction coefficient are recorded respectively.



Standard

GB 10006、ISO 8295、ASTM D1894、TAPPI T816

Specification

Item	Technical parameter
COF test range	0.001~0.999
Force range	0~9.8 N
Measuring error	±2%
Sliding speed	0~500 mm/min
Stroke	100 mm
Sample thickness	≤2 mm
Slider size	63 mm×63 mm
Slider Weight	200 g±2 g
Work platform size	200 mm×470 mm
Instrument size	480 mm×400 mm×220 mm
Power	100 W
Power supply	AC 220 V, 50 Hz
Weight	13.6 kg

Feature

◆ Technological advancement

- Fully automatic operation, one-key test, automatic judgment, automatic shutdown.



◆ **Instrument is stable, reliable and easy to maintain**

The force sensor is easy to calibrate, using a special standard block to quickly calibrate, which is convenient and fast; the host with a LCD display, which displays the static friction coefficient and kinetic friction coefficient in real time; the supporting control software, the interface is simple and clear, easy to operate; display real-time scalable curves; Scope automatic protection function, functional modular design, easy maintenance.

◆ **Intelligent operating system**

- According to the new VERSION of GMP appendix computer system design, test process parameters are set flexibly, with audit tracking function (test tracking, log tracking), to meet the requirements of data traceability, to ensure the safety and integrity of test data. The system operation permission can be set at different levels.
- Intelligent statistical analysis and supports standard deviation analysis of multiple data. At the same time, the system can be expanded, such as access to laboratory LIMS system.
- Personalization test report is configured on demand and supports multiple formats of data output.

◆ **Laboratory intelligent Iot platform**





Internet of Things platform can be connected to realize digital network management:


- Can remotely log into the iot platform and directly enter the software interface of the instrument to perform remote operation.
- Allows access to all experimental data anywhere only by logging into the platform;
- Achieves unified management of experimental data of all instruments in the IOT platform;



- Enables a complete laboratory management process;
- Can apply for after-sale service and order relevant accessories with one key; After-sales personnel can provide remote after-sales service through the system. The platform has a complete after-sales record, which is convenient for after-sales staff to provide high-quality online service;
- Customer downloads the required instrument information, documentation and operation video on the platform.

Application

	Film	Suitable for static friction coefficient and dynamic friction coefficient test of plastic film and thin film
	Paper	Suitable for dynamic and static friction coefficient test of paper and cardboard
	Textiles, non-woven fabrics, woven bags	Suitable for testing static friction coefficient and dynamic friction coefficient of textile, non-woven fabric and woven bag
	Aluminum foil, aluminum foil composite film, metal products	Suitable for testing static friction coefficient and dynamic friction coefficient of aluminum foil, aluminum foil composite film and metal products

	<p>Printing product</p>	<p>It is suitable for static friction coefficient and dynamic friction coefficient test of printed matter</p>
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Product configuration

<p>Standard configuration</p>	<p>Host, Professional testing software, power cable, data cable, special tools, slider, weight</p>
<p>Optional parts</p>	<p>Computers, Metrology Certificates</p>
<p>Remark</p>	<p>3-hole socket, ground wire</p>

Note: GBPI is always committed to product innovation and improved performance, accordingly product technical specifications and appearance are subject to change without notice. GBPI reserves the right of modification and final interpretation.





Service Commitment

- ◆ Free packaging inspection technical support.
- ◆ One-year warranty for instrument, free software upgrade service, and lifetime free technical support.
- ◆ Free to the factory to train the operation of the instrument, qualified people issued graduation certificates, free accommodation and food.
- ◆ Instrument “trade-in” policy and provision of backup instruments in case of failure.
- ◆ There is a testing center (CNAS L8185) to provide incoming sample testing and sample data comparison services.
- ◆ Set up a Reference Standards Development Center to provide calibration services.

Company Introduction

Guangzhou Biaoji Packaging Equipment Co., Ltd. was established in 2002 and located in Guangzhou Economic Development Zone. It is a company integrating R&D, production and sales of packaging testing instruments, packaging equipment, modified atmosphere preservation equipment and other products, as well as providing third-party testing and standard material proficiency testing. It is committed to providing comprehensive, professional and high-quality products and technical services for packaging, food, medicine, testing and other industries.

Write industry standards with quality, and become the leader and leader in the field of global packaging testing. The 80,000-mile journey is sailing, and Guangzhou Biaoji will escort you!

