



SLIP TESTER



DESIGN AND PRODUCTION OF
INSTRUMENTS AND APPARATUS
FOR QUALITY CONTROL
ON MATERIALS



These instruments are made in
compliance with CE health and
safety requirements



Scope and Significance of the Test

This test covers determination of the coefficients of starting and sliding friction of plastic film and sheeting when sliding over itself or other materials at specified test conditions. The starting or static coefficient of friction is related to the force measured to begin movement of the surfaces relative to each other, while the sliding or kinetic coefficient of friction is related to the force measured in sustaining this movement.

The coefficients of friction are related to the slip properties of plastic films that are of wide interest in packaging applications. This test yields empirical data for control purposes in film production. Correlation of test results with actual performance can be established.

Testing Method

A film specimen having standard dimensions is taped on the surface of the horizontal moving plane. A second plastic film is held flat against the first one, by a sled of standard weight and dimensions connected to a load cell via a nylon filament.

By switching on the driving mechanism, the moving plane starts to run at a defined speed. As a result of the frictional force between the contacting surfaces, no immediate relative motion may take place between plane and sled until the pull on the sled is equal to, or exceeds, the static frictional force acting at the contact surfaces. Read and record either this maximum initial force and the average force during the subsequent stroke. These data will be used to calculate the static and kinetic coefficient of friction.

Standards

The instruments are designed and built to meet the following standards:

ASTM D 1894 code 6196.000

DIN 53375 code 6197.000

and other equivalent standards.

Instruments Features

- Structure carbon steel sheet, electro-welded
- Sliding plane dimensions 180 mm x 400 mm
- Plane drive through motoreducer plus rack and pinion
- Plane speed 150 mm/min (ASTM D 1894)
100 mm/min (DIN 53375)
- Sled weight 200 grams (1.96 N)
- Sled surface rubber foam
- Force measurement through load cell
- Force range 1000 grams (9.81 N)
- Force reading through digital display, 3.5 digits
- Output for recorder 100 mV/N

Ancillary Equipment

"XT" Recorder - code 0203.708

Technical Data

Overall dimensions (L x D x H) mm	580 x 370 x 290 approx.
Mass kg	25 approx.
Supply	230 V - 50 Hz - Singlephase 110 V - 60 Hz on request
Power kVA	0.2
Paint	fuchsia RAL 4006 - gray RAL 7035

"Due to the continuous development policy of CEAST's Research and Development Department, changes may be introduced without notice"

Xuanyang M&E Equipment (Shanghai) Co.,Ltd
 Address:Room1010,Lujiabang Road 1011,Huangpu District,Shanghai,Zip:200011
 Tel:+86-21-63761198
 Mobile+86-13918494243
 Fax:+86-21-63760778
 E-mail: hsy@xytec.net
 Website:www.xytec.net