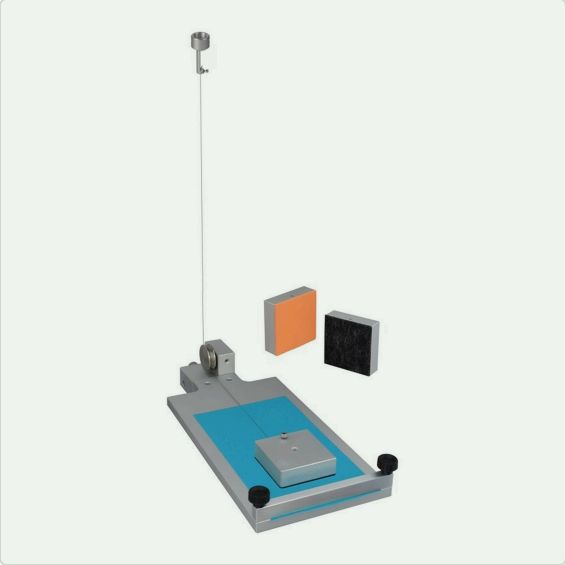
Coefficient of Friction Fixture for Film and Sheet

Built to ISO 8295 — Plastics — Film and sheeting — Determination of the coefficients of friction



OVERVIEW

Horizontal-plane friction fixture for measuring the static and kinetic coefficients of friction of plastic film and sheeting. A weighted sled carrying one film specimen is drawn across a second specimen clamped to the table, via a low-friction pulley and wire connected to the load cell on the rising crosshead.

KEY FEATURES

- Weighted sled with defined contact area for consistent normal force
- Low-friction pulley converts vertical crosshead travel into horizontal pull
- Knob-clamped table plate holds the base film flat
- Interchangeable sleds with felt and elastomer backing
- Mounts directly to the test machine base or lower adapter

TECHNICAL SPECIFICATIONS

Test method	Static and kinetic coefficient of friction, per ISO 8295
Test type / loading	Horizontal sliding via pulley, tension from crosshead
Specimens	Film or sheet: one on sled, one on table
Load capacity	Low force, 10–50 N load cell recommended
Fixture material	Anodised aluminium and stainless steel
Sled	Sled to ISO 8295 mass and contact area; felt or elastomer backing
Machine connection	Base adapter to suit frame; wire hook to load cell
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Packaging films and laminates
- Slip and anti-block additive evaluation
- Plastic sheet against metal or paper
- Converting and packaging line QC

ABOUT THE STANDARD

ISO 8295 specifies a method for determining the static and dynamic coefficients of friction of plastic film and sheeting sliding over itself or over other materials. A sled with a defined contact area and normal force is pulled at a constant speed, and the coefficients are calculated from the starting and average sliding forces divided by the normal force.

Ordering & customization: Specify film or sheet thickness, sled backing material, test machine base and load cell connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO8295-FTF