

Inclined-Plane Peel Cling Fixture for Stretch Film

Built to ASTM D5458 — Standard Test Method for Peel Cling of Stretch Wrap Film



OVERVIEW

Inclined-plane fixture for measuring peel cling of stretch wrap film. A test strip is clung to film mounted on an inclined plate and peeled away by the test machine, measuring the force needed to separate the cling surfaces in a geometry that represents the film tail on a wrapped load.

KEY FEATURES

- Inclined plate holds the base film flat and wrinkle-free
- Clamp bar secures the base film along the plate edges
- Mounts to the lower machine connection with fixed incline
- Smooth surface finish avoids artifacts in cling measurement
- Lightweight construction for low-force load cells

TECHNICAL SPECIFICATIONS

Test method	Peel cling of stretch wrap film
Test type / loading	Tensile peel from an inclined plane
Specimens	Film strips and base film, per ASTM D5458
Load capacity	50 N typical; sized to application
Fixture material	Aluminum, anodized finish
Film mounting	Clamp bars on inclined plate
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Stretch wrap and pallet films
- Cling film formulation development
- Film extrusion QC
- Packaging material comparison

ABOUT THE STANDARD

ASTM D5458 measures the peel cling of stretch wrap film, the force required to separate a film strip from a film-covered surface. A strip is applied to film mounted on an inclined plane and pulled away at a controlled rate on a tensile machine. Results are used to compare cling performance of films in unstretched or prestretched conditions.

Ordering & customization: Specify film width, required capacity and test machine 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.
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