ASTM D2979 Adhesion Test Fixture

Inverted Probe Tack Fixture for PSA

Built to ASTM D2979 — Standard Test Method for Pressure-Sensitive Tack of Adhesives Using an Inverted Probe Machine



OVERVIEW

Probe tack fixture for measuring the tack of pressure-sensitive adhesives. The adhesive specimen is placed over a probe and brought into contact under a controlled light load for a short dwell, then separated at a controlled rate while the peak force needed to break the bond is recorded.

KEY FEATURES

- Flat-tip probe with controlled contact face
- Weighted annulus provides fixed, light contact pressure
- Specimen holder positions adhesive face down over the probe
- Repeatable contact and separation on a universal test machine
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Inverted probe tack
Test type / loading	Contact, short dwell, then tensile separation
Specimens	PSA-coated film or tape per ASTM D2979
Load capacity	Low-force fixture; use with a 10–50 N load cell
Fixture material	Stainless steel probe and holder
Contact surfaces	Polished stainless steel probe tip
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Pressure-sensitive tapes and labels
- PSA formulation development
- Medical and graphic adhesive films
- Adhesive coating QC

ABOUT THE STANDARD

ASTM D2979 measures the pressure-sensitive tack of adhesives using an inverted probe: the tip of a clean probe contacts the adhesive under fixed low pressure and dwell time and is withdrawn at a fixed rate. The maximum force to separate is reported as tack. The method suits tapes, labels and adhesive films. It has been withdrawn but remains in use.

Ordering & customization: Specify probe tip size, contact mass 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.
Part ref. UGC-D2979-ATF