# Ply Adhesion Peel Fixture for Flexible Laminates

Built to ASTM F904 — Standard Test Method for Comparison of Bond Strength or Ply Adhesion of Similar Laminates Made from Flexible Materials



## OVERVIEW

Peel fixture for measuring ply adhesion in flexible laminates. The separated plies of a laminate strip are clamped in opposing grips and pulled apart at a constant rate, recording the force needed to delaminate the bond so similar laminate constructions can be compared directly.

## KEY FEATURES

- Opposing grips hold the separated plies in line
- Even clamping across the specimen width
- Rubber-faced jaws protect thin films from tearing
- Quick-action grips for high-throughput testing
- Low-mass design suits low-capacity load cells

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Test method** | Ply adhesion (peel) |
| **Test type / loading** | Tension peel at constant rate |
| **Specimens** | Laminate strips, per ASTM F904 |
| **Load capacity** | 500 N standard; higher capacities on request |
| **Fixture material** | Aluminum and stainless steel |
| **Gripping surfaces** | Rubber-coated or serrated jaw faces |
| **Machine connection** | Clevis pin or threaded adapter, to suit customer frame |
| **Compatible frames** | Electromechanical universal test machines |

## APPLICATIONS

- Flexible packaging laminates
- Film, foil and paper laminates
- Laminating adhesive evaluation
- Converting process QC

## ABOUT THE STANDARD

ASTM F904 compares the bond strength or ply adhesion of similar laminates made from flexible materials such as films, foils and papers. Strips are partly delaminated by hand, then the plies are pulled apart in tension while force is recorded. Results are used to compare laminates made with different adhesives, processes or conditions.

**Ordering & customization:** Specify strip width, laminate type, required capacity and 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-F904-PF