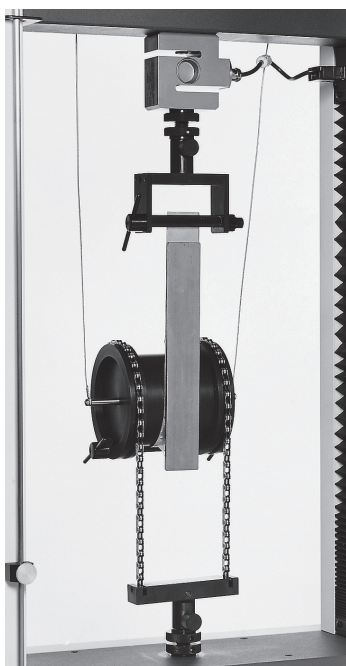


GRIPS

Peel Test Fixtures



CLIMBING DRUM PEEL UNIT

Description:

Climbing drum peel unit comprising a flanged drum with integral clamp for holding the free end of the test assembly. The opposing end is attached to the load cell. The drum is made to rotate by applying tension to the chains attached to the outer rims. This action produces a peel action on the adhesive bond. For ease of handling, the drum assembly is supported with Bowden cables.

Compatible with:

Benchtop materials testing machines.

Applications:

For determining the perpendicular peel strength of adhesive bonds between the core and outer skin of sandwich assemblies, typically honeycomb and other composites.

Specifications

- Conforms to BS5350 Part C13, ASTM D1781
- Maximum capacity: 5kN/1,000lbf
- Minimum load cell: 100N/20lbf
- Drum diameter: 102mm/4in
- Maximum sample width: 75mm/3in
- Weight top clamp: 900g/2lb
- Weight drum assembly: 2.5kg/5.5lb
- Temperature limits: -30-200°C

Specifications

- Maximum capacity: 1.5kN/300lbf
- Minimum load cell: 50N/10lbf
- Maximum sample width: 50mm/2in
- Test plate length: 200mm/8in
- Weight: 675g/1.49lbf
- Temperature limits: -70-100°C

180 DEGREE PEEL UNIT

Description:

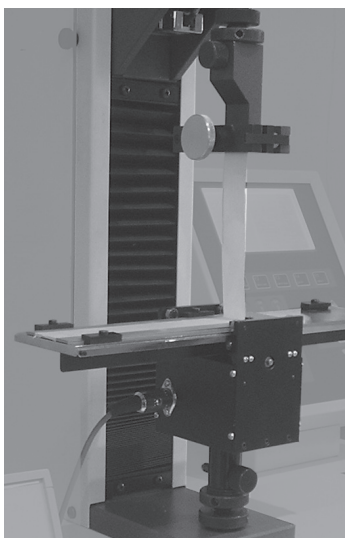
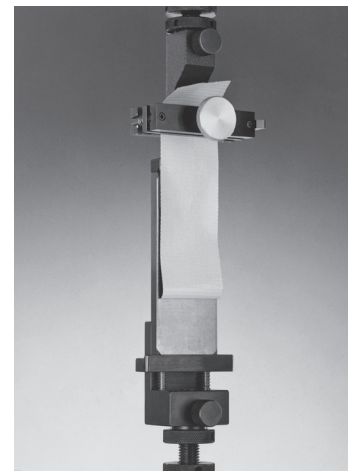
180 degree peel unit comprising a test bed with a spring-loaded retaining plate for locating various test panels on which the peel sample is bonded. An HT50 grip is supplied to grip the free end of the sample.

Compatible with:

Benchtop materials testing machines.

Applications:

Flexible pressure sensitive tapes, labels and laminated coatings.



90 DEGREE PEEL WITH SERVO DRIVEN TEST PLATE

Description:

90 degree peel unit has a servo driven test plate on which various substrates can be attached. A separate control unit is supplied that enables the operator to set the speed of the test plate to accurately correspond with the speed of the testing machine - this maintain a constant peel angle. An HT50 grip is supplied to grip the free end of the sample.

Compatible with:

Benchtop materials testing machines.

Applications:

Pressure sensitive tapes

Specifications

- Maximum capacity: 250N/50lbf
- Minimum load cell: 50N/10lbf
- Maximum sample width: 50mm/2in
- Maximum peel length: 250mm/10in
- Speed range of test plate: 1-1000mm/min
- Control unit power: 220VAC, 50Hz
- Temperature limits: -20-100°C

GRIPS

Peel Test Fixtures



90 DEGREE PEEL UNIT

Description:

The 90 degree peel unit is comprised of a moving test plate mounted on bearings. To maintain a constant peel angle, the test plate is driven in unison with the testing machine crosshead via a cord and pulley system. The printed circuit board (PCB) sample is retained on the test plate with a slotted clamp plate. An HT50 grip is supplied to grip the PCB copper strip.

Compatible with:

Benchtop materials testing machines.

Applications:

Specifically designed for peel testing the bond between copper and PCBs.

Specifications

- Maximum capacity: 1.5kN/300lbf
- Minimum load cell: 50N/10lbf
- Maximum sample width: 50mm/2in
- Maximum sample length: 150mm/5.9in
- Test plate length: 177mm/7in
- Temperature limits: -20-100°C

Specifications

- Maximum capacity: 25N/5.6lbf
- Minimum load cell: 5N/1lbf
- Maximum support bed width: 100mm/3.93in
- Support bed length: 300mm/11.8in
- Sled weight: 200g +/- 2g
- Temperature limits: Ambient-28°C

COEFFICIENT OF FRICTION TEST COMPONENTS

Description:

The components supplied for a Coefficient of Friction test include a sled of known mass that is connected via a cable to a nosepiece attachment. A support plate is fixed to the bottom nosepiece and the nosepiece attachment and cable from the sled are passed under the freewheel mounted on the support plate and attached to the top nosepiece. Once all appropriate fixtures have been tightened, the friction test is ready to be performed.

Compatible with:

Benchtop materials testing machines.

Applications:

Flexible pressure sensitive tapes, labels and laminated coatings. Typical test standards include ASTM D1894, ISO 8295 and more.

