



ASTM D3167 Testing Fixture

This test method covers the determination of the relative peel resistance of adhesive bonds between one rigid adherend and one flexible adherend when tested under specified conditions of preparation and testing. Usually the thickness of the sheets is shown in material specification. If the thickness is not stated, the flexible adhering should be 0.63 mm (0.025 in.) thick and rigid adherence should be 1.63 mm (0.064 in.) thick.

Astm D3167 Test Procedure

- Cut out several identical specimens to be tested. Specimens can be cut by any means, you do not need a sample cutter for this test.
- The specialized **ASTM D3167 TESTING FIXTURE** should be connected to the upper adapter and another grip appropriate for the flexible adherend should be attached to the lower Peel Tester adapter. The specimen assembly is slipped into the middle of the Fixture.
- Bend the flexible adherend around the guide roller of the Fixture and attach the specimen to the lower grip. With this arrangement, when the flexible adherence is pulled downward by the lower grip, the flexible adherend is peeled away from the rigid adherence at a 65 degree angle, with a large bend radius. The rigid adherence rolls through the Fixture fixture during the peel.

- Run the Peel Tester at 6 inches/min
- Make sure to record the force and displacement and gather the average peel force over the displacement range from the software. Then calculate the average peel force and standard deviation of average peel force between all your specimens.



ASTM D 3167 Testing Fixture - Drawing



ASTM D3167 Testing Fixture - packaging

Referenced Documents

- ASTM Standards
- B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate

- D907 Terminology of Adhesives
- D1781 Test Method for Climbing Drum Peel for Adhesives
- E4 Practices for Force Verification of Testing Machines

Additional Information

Test Standard	ASTM D3167, DIN 53289, EN 1464, ISO 4578.
Maximum Load	10 kN
Temperature Range	da -80 °C a 149 °C
Specimen Thickness	depending on material
Width	25.4 mm
Length	113 mm

Mass

0.70 kg