

SLOW RATE PENETRATION RESISTANCE OF FILMS AND LAMINATES



Specimen:	Width	6 x 6 square (1.75" diameter clamp)
	Thickness	Up to .15"
Fixture:	Construction	Aluminum
	Temperature	-20 to 120°F (-29 to 49°C)
	Mounting	5/8"-18 coupling top, 1"-14 coupling bottom
	Capacity	500 lbs
	Weight	20 lbs approximately
	Dimensions	Assembled - 7" x 7" x 20"
	Standard	Manufactured in accordance with ASTM F1306

Model No. ASTM.F1306.10 - Slow Rate Penetration Resistance of Films and Laminates

The fixture consists of penetration probe is 2.75" long with a radius of 0.06" tip. A 6" long loading rod which is attached to the upper platen of the upper portion of the fixture. The upper adapter is a 5/8" -18 threaded coupling.

The lower portion of the fixture has a 1.375" internal diameter specimen clamping support and ring. The loading ring is pressed against the film with a pneumatic cylinder. The lower adapter is a 1" -14 threaded coupling. Fixture capacity 500 pounds. Constructed of aluminum in accordance with ASTM F1306.

MODEL NO. ASTM.F1306.10

ASTM, SLOW, RATE, PENETRATION,

ACCESSORIES

Upper fixture attachment is supplied with 5/8"-18 female coupling (Common adapter sizes include:)

Model No. M01S27 - 1/2" Male Clevis (Type B) to 5/8" -18 Threaded Stud
Model No. M02S27 - 5/8" Male Clevis (Type C) to 5/8" -18 Threaded Stud
Model No. M03S27 - 1.25" Male Clevis (Type D) to 5/8" -18 Threaded Stud
Model No. M12S27 - 12mm Male Clevis to 5/8" -18 Threaded Stud Adapter
Model No. S36S27 - 1" -14 to 5/8" -18 Threaded Step Stud
Model No. LN27 - 5/8" -18 Threaded Locking Nut with Knurled OD

Lower fixture attachment is supplied with 1" -14 female coupling. (Common adapter sizes include:)

Model No. M03S36 - 1.25" Male Clevis (Type D) to 1" -14 Threaded Stud
Model No. S42S36 - 1.25" -12 to 1" -14 Threaded Step Stud
Model No. S48S36 - 1.5" -12 to 1" -14 Threaded Step Stud
Model No. S60S36 - 2" -12 to 1" -14 Threaded Step Stud
Model No. LN36 - Threaded Locking Nut with Knurled OD

SPARE PARTS

ACC.F1306.1001 - Replacement Bearings
ACC.F1306.1002 - Replacement Air Cylinder
ACC.F1306.1003 - Replacement Air Tubing

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/F1306.htm>
ASTM F1306-90(2008)e1
Standard Test Method for Slow Rate Penetration Resistance of Flexible Barrier Films and Laminates

1.1 This test method permits flexible barrier films and laminates to be characterized for slow rate penetration resistance to a driven probe. The test is performed at room temperature, by applying a biaxial stress at a single test velocity on the material until perforation occurs. The force, energy, and elongation to perforation are determined.

1.2 The values stated in SI units are to be regarded as standard. The values given in parentheses are mathematical conversions to inch-pound units that are provided for information only and are not considered standard.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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Material Testing Technology