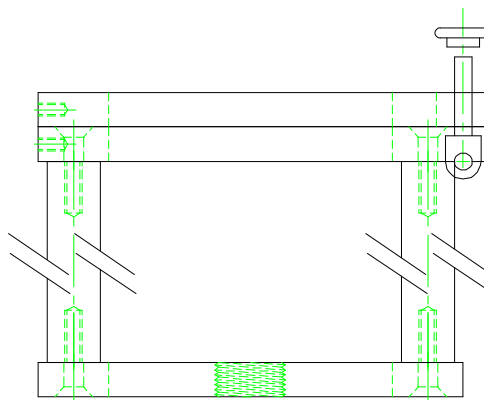
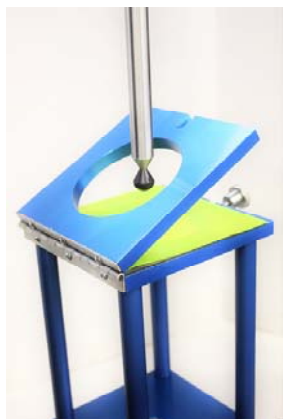


PROTRUSION PUNCTURE FIXTURE (COMPRESSION MODE) (AL)



Specimen:	Width	6"
	Thickness	Up to 1/8"
	Length	6"
Fixture:	Construction	Aluminum with a protective anodized finish
	Temperature	-20 to 120°F (-29 to 49°C)
	Mounting	1/2" -20 coupling top, 1" -14 coupling Bottom
	Capacity	1,000 lbs (4.4 kN)
	Weight	12 lbs approximately
	Dimensions	6.5" x 6" x 10" approximately
	Standard	Manufactured in accordance with ASTM D4649 and D5748

Model No. ASTM.D4649.10 - Protrusion Puncture Fixture (compression mode) - The fixture clamps the 6" square stretch wrap film specimen between two clamping plates. The clamping plates are hinged and held together with a toggle clamp. The clamping plates are supported 8" above the base plate which has 1" -14 threaded loading coupling. The probe assembly includes a 3/4" diameter pear shaped Teflon coated probe, an 11" probe shaft, and 1/2" -20 threaded loading coupling. The fixture is also supplied with a 6" square specimen cutting template. Constructed of aluminum with a protective blue anodized coating in accordance with ASTM D4649 & D5748.

MODEL NO. ASTM.D4649.10

ASTM, PROTRUSION, PUNCTURE, STRETCH,

ACCESSORIES

ACC.D4649.1001 - 1" Diameter Stainless Steel Ball Shaped Probe
ACC.D4649.1002 - 1" Diameter Teflon Covered Pear Shaped Probe
ACC.D4649.1003 - 1" Diameter Teflon Pear Shaped Probe

Upper fixture attachment is supplied with 1/2" -20 female coupling (Common adapter sizes include:)

Model No. M01S21 - 1/2" Male Clevis (Type B) to 1/2" -20 Threaded Stud
Model No. M02S21 - 5/8" Male Clevis (Type C) to 1/2" -20 Threaded Stud
Model No. M03S21 - 1.25" Male Clevis (Type D) to 1/2" -20 Threaded Stud
Model No. M12S21 - 12mm Male Clevis (Type O) to 1/2" -20 Threaded Stud
Model No. S36S21 - 1" -14 to 1/2" -20 Threaded Step Stud
Model No. LN21 - 1/2" -20 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 - 1" -14 Threaded Locking Nut with Knurled OD

SPARE PARTS

SPA.D4649.1001 - Extra Specimen Template
SPA.D4649.1002 - Extra Rubber Gasket
SPA.D4649.1003 - Extra 3/4" Diameter Teflon Covered Pear Shaped Probe

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/D4649.htm>

ASTM D4649 - 03(2009)

Standard Guide for Selection and Use of Stretch Wrap Films

1.1 This guide covers recommended guidelines and test methods for the selection, specification, and use of stretch wrap films for unitizing, reinforcing, and palletizing for indoor environments. This can include storage or transport, or both, in warehouses, closed containers such as truck trailers or rail boxcars, and associated transfer terminals. This guide does not cover the performance issues associated with outdoor exposure.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI 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.

A1.1.1 This test method is intended to be used as a means of comparing the wrapping performance of stretch wrap films.

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