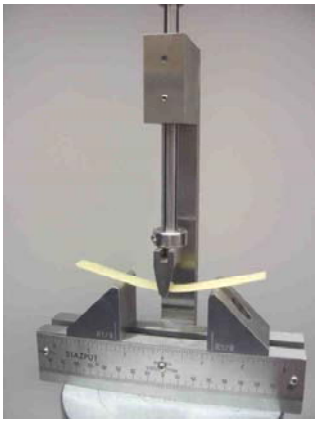
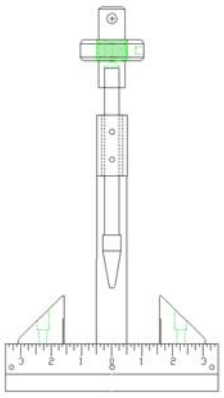
MTT

MODEL NO. ASTM.D2344.10

ASTM, COMPOSITE, SHEAR, SHORT, BEAM,

SHORT BEAM SHEAR AND THREE POINT FLEXURE FIXTURE (ADJUSTABLE SUPPORTS)





Specimen	Width	Up to 1.5”
	Thickness	Up to 2.0”
	Length	Up to 6” span
Fixture	Support Spans	Any size from 0.125” to 6.0”
	Loading Radii	1/8”R (loading nose) 1/16”R (supports)
Loading Noses	Construction	Stainless steel
Guides	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	Top: 12mm male clevis (Type O)
		Bottom: 1/2” -20 threaded coupling
	Capacity	2,000 lbs (8.8kN)
	Weight	15 lbs
	Dimensions	Assembled - 2.5” x 7” x 11.5”
	Standard	Manufactured in accordance with ASTM D2344

Model No. ASTM.D2344.10 -Short Beam Shear and Three Point Flexure Fixture (Adjustable Supports) The fixture comes with three point loading head. Specimen supports are free-moving slides. Three point loading head is supplied with a fixed 0.125" (3.2mm) radius loading nose. Loading head is guided by a grooved shaft and double linear bearings. Fixture is constructed from stainless steel in accordance with ASTM D2344.

Support Base - Constructed from stainless steel. 7" long by 1.5" wide with a T-slot running the length of the base. The upper and lower surfaces are ground flat and parallel. The support block separation measured along a center finding scale located on the the front surface of the support base. Includes 1/2” -20 threaded coupling for mounting purposes.

Specimen Supports - Constructed from stainless steel. 1.5" wide by 1.5" tall with alignment rails which fit in the T-slotted support base. The supports are supplied with 0.0625" (1.6mm) radius support. The center position of the support diameter is indicated by a scribe line which runs down the side of the support to the center finding scale. The supports are free to slide anywhere along the support base and may be reversed for short and long spans. Includes 12mm (Type O) male clevis adapter.

Material Testing Technology

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ACCESSORIES

ACC.D2344.1001 - Extra Loading Nose - 5mm R
ACC.D2344.1002 - Extra Set of (2) Supports - 2mm R
ACC.D2344.1003 - Extra Loading Nose - 3mm R
ACC.D2344.1004 - Extra Set of (2) Supports - 3mm R
ACC.D2344.1005 - Fixed Span 4 Point Loading Nose - Please specify diameter
ACC.D2344.1006 - Set of Extra Loading Nose and (2) Supports

Upper and lower 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

SPARE PARTS

SPA.D2344.1001- Replacement Bearings
SPA.D2344.1002- Replacement Shaft

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

SCOPE: http://www.astm.org/Standards/D2344.htm
ASTMD2344/D2344M-13
Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates
1.1 This test method determines the short-beam strength of high-modulus fiber-reinforced composite materials. The specimen is a short beam machined from a curved or a flat laminate up to 6.00 mm [0.25 in.] thick. The beam is loaded in three-point bending.
1.2 Application of this test method is limited to continuous- or discontinuous-fiber-reinforced polymer matrix composites, for which the elastic properties are balanced and symmetric with respect to the longitudinal axis of the beam.
1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.
1.4 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.