



Designation: D7506/D7506M – 12

Standard Test Method for Pocket Reinforcement¹

This standard is issued under the fixed designation D7506/D7506M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method utilizes the grab procedures to determine localized weakness due to bar-tacking in the pocket areas of all types of garments. This can be utilized to test bar-tacking in the pockets of shirts, as well as side or back pockets of trousers, pants, or jeans.

1.2 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 shall be used independently of the other. Combining values from the two systems may result in non-conformance with the 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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D76 Specification for Tensile Testing Machines for Textiles

D123 Terminology Relating to Textiles

D1776 Practice for Conditioning and Testing Textiles

D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

3. Terminology

3.1 *Definitions*

3.1.1 *constant-rate-of-extension tensile testing machine (CRE), n*—a testing machine in which the rate of increase of specimen length is uniform with time.

3.1.2 *grab test, n—in fabric testing*, a tensile test in which the central part of the width of the specimen is gripped in the clamps.

¹ This test method is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.54 on Subassemblies.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

3.1.3 *tensile test, n—in textiles*, a test in which a textile material is stretched in one direction to determine the load elongation characteristics, in the breaking load, or the breaking elongation.

3.1.4 For definitions of other terms used in this test method, refer to Terminology D123.

4. Summary of Test Method

4.1 A specimen of the pocket area with the bar-tacking is mounted centrally in clamps of the tensile strength machine and a force is applied until the specimen breaks.

5. Apparatus

5.1 *Constant-rate-of-extension (CRE) tensile testing machine*, as used in Test Method D5034, conforming to Specification D76.

5.2 *Clamps and jaws, rubber faced or other gripping surface*—jaw faces must measure 1.0 ± 0.02 in. (25 ± 1 mm) wide at least 1 in. (25 mm), perpendicular to the direction of the force, and not less than 25 nor more than 50 mm (1.0 nor more than 2.0 in.). The back, or bottom, jaw face of each clamp shall be at least as large as its mate. Use of a larger face for the second jaw reduces the problem of front and back jaw face misalignment.

6. Safety Precautions

6.1 It is the users responsibility to use safe and proper techniques when handling or using any of the equipment mentioned.

6.2 Good laboratory practice should be followed. Wear safety glasses in all laboratory test rooms.

7. Sampling, Test Specimens, and Test Units

7.1 Cut the garment or the side pockets as shown in Figs. 1-4. If multiple samples are available, cut, if possible, a minimum of 3 specimens. If not, test an agreed upon number of samples.

8. Preparation of Apparatus

8.1 *Tensile Testing Machine:*

8.1.1 Prepare the machine according to the manufacturer's instructions.