



Designation: D 1117 – 9901

Standard Guide for Evaluating Nonwoven Fabrics¹

This standard is issued under the fixed designation D 1117; 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 guide covers procedures for testing nonwoven fabrics. The test procedures appear in the following sections:

	Section
Abrasion Resistance	18
Absorbency	21
Air Permeability	8
Breaking Force and Elongation	9
Bursting Strength	10
Conditioning	7
Dimensional Change	20
Drycleaning	11
Flexural Rigidity	12
Mass Per Unit Area (Note 2)	17
Resin Binder Distribution	22
Seam Breaking Strength	13
Trapezoid Tear	14
Tongue Tear (Single Rip)	15
Elmendorf Tear	16
Thickness	19

NOTE 1—The terms “machine” and “cross machine” must be substituted for “warp” and “filling,” respectively, throughout these test methods wherever pertinent.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only and may be approximate.

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:*

¹ This guide is under the jurisdiction of ASTM Committee D13 on Textiles and are the direct responsibility of Subcommittee D13.64 on Nonwoven Fabrics. Current edition approved Sept. 10, 1999; 2001. Published January 2000. December 2001. Originally published as D 1117 – 50T. Discontinued November 1995 and reinstated as D 1117. Last previous edition D 1117 – 989.