

Standard Test Method for WRINKLE RECOVERY OF WOVEN TEXTILE FABRICS USING THE VERTICAL STRIP APPARATUS¹

This Standard is issued under the fixed designation D 1295; 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.

The committee responsible for this standard has voted its withdrawal. In the absence of substantial reasons that it should be continued, the Society will approve withdrawal from publication in November 1977.

1. Scope

1.1 This method covers the determination of the wrinkle recovery of woven fabrics. It is applicable to fabrics made from any fiber, or combination of fibers.

2. Applicable Documents

2.1 ASTM Standards:

D 123 Definitions of Terms Relating to Textiles²

D 1776 Recommended Practice for Conditioning Textiles and Textile Products for Testing²

3. Definitions

3.1 *wrinkle recovery, n.*—that property of a fabric which enables it to recover from folding deformations.

3.2 For definitions of other textile terms used in this method, refer to Definitions D 123.

4. Summary of Method

4.1 A specimen of fabric is creased under controlled conditions of time and load. It is then suspended in the test apparatus and allowed to recover for a prescribed period, after which the recovery angle is measured.

5. Uses and Significance

5.1 Although the between-laboratory precision is poor, the within-laboratory precision can be good. This method is used widely both as a research tool and for production quality control.

5.2 Because the various parameters that determine wrinkle recovery in actual use vary widely, no single set of test conditions can be selected to give good correlation with actual wear.

5.3 Parameters that must be controlled in the test are: relative humidity, temperature, applied pressure, time under pressure, and recovery time. This method specifies arbitrarily selected values for the latter three factors, based on a compromise between conditions likely to be encountered in service, and the expeditious conduct of the test. Two conditions of temperature and relative humidity are specified as being representative of normal experience. For specialized purposes, it may be desirable to use other combinations of temperature and humidity.

6. Apparatus

6.1 Wrinkle Recovery Tester³ and Accessories.

6.1.1 *Disk and Protractor*, mounted coaxially on a vertical support so that they are free to rotate about a horizontal axis. The center of the disk-protractor assembly shall be marked, and a vertical guide line drawn on

¹ This method is under the jurisdiction of ASTM Committee D-13 on Textiles, and is the direct responsibility of Subcommittee D13.59 on Fabric Test Methods, General.

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² *Annual Book of ASTM Standards*, Parts 32 and 33.

³ Apparatus meeting the requirements of this test may be obtained from T. J. Edwards, Inc., Boston, Mass.