



Designation: D 2058 – 03

Standard Test Method for Durability of Finish of Zippers to Drycleaning¹

This standard is issued under the fixed designation D 2058; 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 covers the determination of the durability of the enamel or other decorative coating of zippers when subjected to drycleaning.

1.2 *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

D 123 Terminology Relating to Textiles

D 2050 Terminology Relating to Zippers

D 2051 Test Method for Durability of Finish of Zippers to Laundering

D 2052 Test Method for Colorfastness of Zippers to Drycleaning

D 2053 Test Method for Colorfastness of Zippers to Light

D 2054 Test Method for Colorfastness of Zipper Tapes to Crocking

D 2057 Test Method for Colorfastness of Zippers to Laundering

D 2059 Test Method for Resistance of Zippers to Salt Spray (Fog)

D 2060 Test Methods for Measuring Zipper Dimensions

D 2061 Test Methods for Strength Tests for Zippers

D 2062 Test Methods for Operability of Zippers

2.2 *AATCC Method:*

Method 86 Drycleaning: Durability of Applied Designs and Finishes³

3. Terminology

3.1 *Definitions:*

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. The method was developed in cooperation with the Slide Fastener Assn. Inc.

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² For referenced ASTM standards, visit the ASTM web site, 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 web site.

³ Technical Manual of the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

3.1.1 For definitions of zipper terms used in this standard, refer to Terminology D 2050. For definitions of other textile terminology used in this standard refer to Terminology D 123.

4. Summary of Test Method

4.1 A specimen is agitated in a solution of solvent and a drycleaning detergent with steel balls to simulate the action that occurs in a drycleaning machine.

5. Significance and Use

5.1 Test Method D 2058 is useful for determining the effect of repeated drycleaning on the appearance of the decorative coating of a zipper.

5.2 This test method is considered satisfactory for acceptance testing of commercial shipments because the method has been used extensively in the trade for acceptance testing.

5.2.1 If there are differences of practical significance between reported test results for two laboratories (or more), comparative tests should be performed to determine if there is a statistical bias between them, using competent statistical assistance. As a minimum, the test samples should be used that are as homogeneous as possible, that are drawn from the material from which the disparate test results were obtained, and that are randomly assigned in equal numbers to each laboratory for testing. Other materials with established test values may be used for this purpose. The test results from the two laboratories should be compared using a statistical test unpaired data, at a probability level chosen prior to the testing series. If a bias is found, either its cause must be found and corrected, or future test results must be adjusted in consideration of the known bias.

5.3 The method(s) in the standard along with those in Test Methods D 2051, D 2052, D 2053, D 2054, D 2057, D 2059, D 2060, D 2061, and D 2062 are a collection of proven test methods. They can be used as aids in the evaluation of zippers without the need for a thorough knowledge of zippers. The enumerated test methods do not provide for the evaluation of all zipper properties. Besides those properties measured by means of the enumerated test methods there are other properties that may be important for the satisfactory performance of a zipper. Test methods for measuring those properties have not been published either because no practical methods have yet