



Designation: D2052 – 05(Reapproved 2010)

Standard Test Method for Colorfastness of Zippers to Drycleaning¹

This standard is issued under the fixed designation D2052; 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 change in shade and of staining of zipper stringers under drycleaning conditions. This test method is applicable to the textile portion of zipper stringers of all materials.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as the standard. Within the text, the inch-pound units are shown in parentheses. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with this test method.

1.3 *This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of whoever uses this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D123 Terminology Relating to Textiles](#)

[D2050 Terminology Relating to Fasteners and Closures Used with Textiles](#)

[D2051 Test Method for Durability of Finish of Zippers to Laundering](#)

[D2053 Test Method for Colorfastness of Zippers to Light](#)

[D2054 Test Method for Colorfastness of Zipper Tapes to Crocking](#)

[D2057 Test Method for Colorfastness of Zippers to Laundering](#)

[D2058 Test Method for Durability of Finish of Zippers to Drycleaning](#)

[D2059 Test Method for Resistance of Zippers to Salt Spray \(Fog\)](#)

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.

Current edition approved June 1, 2010. Published August 2010. Originally approved in 1961. Last previous edition approved in 2005 as D2052 – 05. DOI: 10.1520/D2052-05R10.

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.

[D2060 Test Methods for Measuring Zipper Dimensions](#)

[D2061 Test Methods for Strength Tests for Zippers](#)

[D2062 Test Methods for Operability of Zippers](#)

[D2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics](#)

[D3692 Practice for Selection of Zippers for Care-Labeled Apparel and Household Furnishings](#)

2.2 *AATCC Methods:*

[Evaluation Procedure 1, AATCC Gray Scale for Color Change](#)³

[Evaluation Procedure 3, AATCC Chromatic Transference Scale](#)³

3. Terminology

3.1 For all terminology related to D13.54, Subassemblies, refer to Terminology [D2050](#).

3.1.1 The following terms are relevant to this standard: colorfastness, drycleaning.

3.2 For all other terminology relating to textiles, see Terminology [D123](#).

4. Summary of Test Method

4.1 A specimen of the zipper stringer, in conjunction with multifiber test fabric is subjected to drycleaning. The drycleaned specimen is compared with an original specimen (see [10.1](#)) and any change in color of the specimen or staining of the multifiber test cloth is then assessed using the AATCC Gray Scale for Color Change or the AATCC Chromatic Transference Scale, as appropriate.

5. Significance and Use

5.1 Test Method D2052 is useful for testing to determine if the degree of alteration in shade is satisfactory for the intended end-use and for determining if unacceptable staining of color into adjacent fabric will occur.

NOTE 1—For guidance in evaluating the results of this test method, refer to Practice [D3692](#).

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.

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