Designation: D 2052 – 01

Standard Test Method for Colorfastness of Zippers to Drycleaning[1]

This standard is issued under the fixed designation D 2052; 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:*

D 123 Terminology Relating to Textiles[2]

D 2050 Terminology Relating to Zippers[2]

D 2051 Test Method for Durability of Finish of Zippers to Laundering[2]

D 2053 Test Method for Colorfastness of Zippers to Light[2]

D 2054 Test Method for Colorfastness of Zipper Tapes to Crocking[2]

D 2057 Test Method for Colorfastness of Zippers to Laundering[2]

D 2058 Test Method for Durability of Finish of Zippers to Drycleaning[2]

D 2059 Test Method for Resistance of Zippers to Salt Spray (Fog)[2]

D 2060 Test Methods for Measuring Zipper Dimensions[2]

D 2061 Test Methods for Strength Tests for Zippers[2]

D 2062 Test Methods for Operability of Zippers[2]

D 2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics[2]

D 3692 Practice for Selection of Zippers for Care-Labeled Apparel and Household Furnishings[3]

2.2 *AATCC Methods:*

Evaluation Procedure 1, AATCC Gray Scale for Color Change[4]

Evaluation Procedure 3, AATCC Chromatic Transference Scale[4]

3. Terminology

3.1 *Definitions:*

3.1.1 *colorfastness*, *n*—A measure of the ability of dyed material when drycleaned to not lose color and to resist color transfer to another item.

3.1.2 *drycleaning*, *n*—a nonaqueous solvent cleaning.

3.1.3 For definitions of other textile terms of terms relating to zippers, refer to Terminology D 123 and Terminology D 2050.

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 D 2052 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 D 3692.

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 their is

[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] *Annual Book of ASTM Standards*, Vol 07.01.

[3] *Annual Book of ASTM Standards*, Vol 07.02.

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