Designation: ~~D2051 – 03(Reapproved 2009)~~ D2051 – 14

Standard Test Method for Durability of Finish of Zippers to Laundering[1]

This standard is issued under the fixed designation D2051; 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 a zipper when subjected to laundering.

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]
D123 Terminology Relating to Textiles
D2050 Terminology Relating to Fasteners and Closures Used with Textiles
D2052 Test Method for Colorfastness of Zippers to Drycleaning
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)
D2060 Test Methods for Measuring Zipper Dimensions
D2061 Test Methods for Strength Tests for Zippers
D2062 Test Methods for Operability of Zippers

2.2 *AATCC Method:*
Method 61 Colorfastness to Washing, Domestic; and Laundering, Commercial: Accelerated[3]

3. Terminology

3.1 *Definitions*—For definitions of zipper terms used in this standard, refer to Terminology D2050. For definitions of other textile terminology used in this standard, refer to Terminology D123.

4. Summary of Test Method

4.1 Specimens are laundered in laboratory equipment at a low liquor-to-goods ratio under conditions of temperature, bleaching, and abrasive action that produce the effect of repeated launderings in a conveniently short time. The zipper coating is abraded by the throw, slide, and impact of an appropriate number of steel balls. The effects of the test on zipper coating are evaluated by noting the loss of coating on the zipper chain or components, or both.

5. Significance and Use

5.1 Test Method D2051 is useful for testing to determine the effect of repeated laundering on the appearance of the decorative coating of a zipper.

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[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 Association, Inc.

Current edition approved ~~July 1, 2009~~Feb. 1, 2014. Published ~~August 2009~~March 2014. Originally approved in 1961. Last previous edition approved in ~~2003~~2009 as ~~D2051 – 03~~.D2051 – 03(2009). DOI: ~~10.1520/D2051-03R09.~~10.1520/D2051-14.

[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.