



Designation: D6182 – 00 (Reapproved 2015)

Standard Test Method for Flexibility and Adhesion of Finish on Leather¹

This standard is issued under the fixed designation D6182; 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 is intended for use on finished leather to evaluate resistance to cracking, delamination, and discoloration of the finish when subjected to repeated flexing. This test method does not apply to wet blue.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *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

[D1517 Terminology Relating to Leather](#)

[D1610 Practice for Conditioning Leather and Leather Products for Testing](#)

[D2813 Practice for Sampling Leather for Physical and Chemical Tests](#)

2.2 *DIN Standard:*³

[DIN 53351 Dauerfaltverhalten](#)

3. Terminology

3.1 *Definitions*—Terms used in this test method are defined in accordance with Terminology [D1517](#).

¹ This test method is under the jurisdiction of ASTM Committee [D31](#) on Leather and is the direct responsibility of Subcommittee [D31.07](#) on Physical Properties.

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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.

³ DIN 53351 *Dauerfaltverhalten* is published by DIN Deutsches Institut für Normung and is available from ANSI, 11 W. 42nd St., 13th Floor, New York, NY 10036, and from Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112.

4. Summary of Test Method

4.1 Leather is conditioned according to one of two prescribed procedures, flexed in a Bally Flexometer,⁴ and an endpoint is determined by rating the degree of damage after a fixed number of flexes.

5. Significance and Use

5.1 This test method is intended for use on any type of finished leather.

5.2 This test method will give an indication of the flexibility, adhesion, and strength of the finish on leather.

6. Apparatus

6.1 *Bally Flexometer*, conforming to DIN 53351, and operating at a rate of 100 cycles/min.

6.2 Die for cutting leather specimens to 45 × 70 mm.

7. Reagents and Materials

7.1 *Distilled or Deionized Water*.

8. Sampling, Test Specimens, and Test Units

8.1 Sample leather according to Practice [D2813](#).

8.2 Cut two test pieces 45 × 70 mm from each sample using a die. One piece cut parallel and the other perpendicular to the backbone.

9. Conditioning

9.1 *Dry Leather Test*—Prepare the test pieces according to Practice [D1610](#).

9.2 *Wet Leather Test*—Submerge the test pieces in distilled or deionized water for 20 ± 1 min. Blot excess water off using blotting paper or a paper towel.

9.3 *Other Test*—Conditioning, other than as prescribed, shall be documented in the results.

⁴ Equipment conforming to DIN 53351 is available from Bally Trading Ltd. Prüfgeräteverkauf, CH-5012 Schönenwerd, Switzerland. Other manufacturers are Giuliani S.N.C., Via Cervino, 10 Torino, Italy, and Pellizzato Bruno, 31033 Salvarosa di Castelfranco Veneto (Treviso), Borgo Mandolato 13, Italy.