



Designation: **D3207–92 (Reapproved 2016) D3207 – 17**

## Standard Test Method for Detergent Resistance of Floor Polish Films<sup>1</sup>

This standard is issued under the fixed designation D3207; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This test method covers a bench procedure for measuring the detergent resistance properties of floor polishes.

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.*

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

**D1436** Test Methods for Application of Emulsion Floor Polishes to Substrates for Testing Purposes

### 3. Significance and Use

3.1 This test method is used to determine the relative resistance of floor polishes to detergent scrubbing using the Gardner Straight Line Washability Meter and to separate polishes with poor detergent resistance from those with good detergent resistance. Results are duplicative between laboratories.

### 4. Apparatus

4.1 *Washability Apparatus*—The Gardner straight line washability machine.<sup>3</sup>

4.2 *Applicator*—Doctor blade, 50 mm (2-in.) wide and having a 0.203-mm (0.008-in.) clearance along the bottom edge (see Test Methods **D1436**).

4.3 *Test Flooring Substrates*—Official Vinyl Composition Tile (OVCT),<sup>4</sup> Black, 304.8 by 304.8 mm (12 by 12 in.).

4.4 *Volumetric Pipet*—A 1-mL pipet graduated in 0.2-mL units.

4.5 *Hog Bristle Brush*—Aluminum block, 89 by 38-mm (3½ by 1½-in.) hog bristle brush with 19-mm (¾-in.) bristles. Soak in detergent solution (see 5.1) for a minimum of 1 h prior to test.

4.6 *Cellulose Sponge*—Cut to fit the Gardner brush holder. The sponge is to be used for household floor polishes only.

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee **D21** on Polishes and is the direct responsibility of Subcommittee **D21.04** on Performance Tests. Current edition approved Oct. 1, 2016/March 1, 2017. Published October 2016/April 2017. Originally approved in 1973. Last previous edition approved in 2008/2016 as D3207 – 92 (2008); (2016). DOI: 10.1520/D3207-92R16.10.1520/D3207-17.

<sup>2</sup> 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.

<sup>3</sup> The sole source of supply of the apparatus known to the committee at this time is Gardner Laboratory, Inc., P. O. Box 5758, Bethesda, MD. If you are aware of alternative suppliers, please provide this information to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend.

<sup>4</sup> The sole source of supply of the apparatus known to the committee at this time is Chemical Specialties Manufacturers Assn., 1913 Eye St., NW, Washington, DC 20006. If you are aware of alternative suppliers, please provide this information to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. OVCT tile may be obtained through Armstrong Flooring from various home improvement stores. The following Armstrong tile substrates have been found to perform adequately for this test method: Armstrong Excelon Feature Tile: Black (56790), [http://www.armstrong.com/commflooringna/product\\_details\\_toolbox\\_magnify.jsp?item\\_id=47394](http://www.armstrong.com/commflooringna/product_details_toolbox_magnify.jsp?item_id=47394).