Designation: D4339 - 01 (Reapproved 2018)

# Standard Test Method for Determination of the Odor of Adhesives<sup>1</sup>

This standard is issued under the fixed designation D4339; 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  $(\varepsilon)$  indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

#### 1. Scope

- 1.1 This test method describes a procedure for evaluating the odor of adhesives. It is intended to replace Federal Standard 175A, Method 4051.
- 1.2 This test method provides a means of comparing the odor of an adhesive sample to a reference sample. It is not intended to give an absolute value for the odor of a sample. It can be used for wet or dry samples.
- 1.3 **Warning**—Do not use this test method with adhesives containing hazardous components such as solvent residues and unreacted monomeric materials.
- 1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.
- 1.5 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use. See 1.3 for specific precautionary statements.
- 1.6 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>

D907 Terminology of Adhesives

D1391 Method for Measurement of Odor in Atmospheres

 $^{1}$  This test method is under the jurisdiction of ASTM Committee D14 on Adhesives and is the direct responsibility of Subcommittee D14.10 on Working Properties.

## (Dilution Method) (Withdrawn 1986)<sup>3</sup>

#### 3. Terminology

- 3.1 *Definitions*—Several terms in this test method are defined in accordance with Terminology D907.
  - 3.2 Definitions of Terms Specific to This Standard:
- 3.2.1 *odor*; *n*—that property of a substance which affects the sense of smell.

### 4. Significance and Use

4.1 The results from this determination are useful in determining the suitability of adhesives in applications where the odor level associated with the end use is critical.

# 5. Apparatus

5.1 Glass Bottles, 1-qt (1-L), wide-mouth, straight sided, with screw caps.

Note 1—It is important that the bottles and caps be kept clean and odor-free. Discard any bottle which cannot be made visibly clean or odor-free. Wash bottles and caps with a suitable cleaning powder, rinse thoroughly with tap water, then rinse with distilled water, drain, and dry in an oven. Do all cleaning in an odor-free atmosphere.

- 5.2 Oven or Incubator, for aging samples at elevated temperatures.
  - 5.3 Aluminum Foil.
  - 5.4 Balance, capable of measuring to nearest 0.1 g.

#### 6. Test Sample and Test Specimen

- 6.1 Select a test sample representative of the adhesive being tested. It may be liquid or solid. Keep in a tightly closed container until used (5.1).
- 6.2 For the test specimen, place  $20.0 \pm 0.1$  g of the test sample into the glass bottle (5.1), cover with aluminum foil, place the cap on the bottle and tighten.

Note 2—Always use new aluminum foil, never reuse it.

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<sup>&</sup>lt;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>&</sup>lt;sup>3</sup> The last approved version of this historical standard is referenced on www.astm.org.