



Standard Terminology of Adhesives¹

This standard is issued under the fixed designation D 907; 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 standard is a compilation of definitions used in the science and technology of the adhesives industry. Terms that are generally understood or adequately defined in other readily available sources are not included.

1.2 Any changes in this standard since 1988 are documented as follows:

1.2.1 Appendix X1 gives a history of revisions made since 1988. Table X1.1 lists the terms that are affected as: (1) Terms Added, (2) Terms Revised, and (3) Terms Deleted.

1.2.1.1 In Table X1.1, the year of publication in Volume 15.06 is shown in parentheses following the term.

1.2.2 In the text of the standard, the year of publication is shown following each definition. Also, the following codes are included after the year of publication to describe the type change that was made: (A) Addition, (R) Revision, or (E) Edited.

1.2.3 Deletions are shown in Appendix X1, suitably footnoted. The deleted terms do not appear in the text of the standard.

1.2.4 Any special circumstances not covered by 1.2.2 and 1.2.3 are documented in Table X1.1, suitably footnoted.

2. Terminology

acceptance test, *n*—a test, or series of tests conducted by the procuring agency, or an agent thereof, upon receipt to determine whether an individual lot of materials conforms to the purchase order or contract or to determine the degree of uniformity of the material supplied by the vendor, or both. (Compare **preproduction test** and **qualification test**.)

acid number, *n*—the quantity of base, expressed in milligrams of potassium hydroxide, that is required to titrate acidic constituents present in 1 g of sample. (1992) (A) **D 2849, D-20**

adhere, *v*—to cause two surfaces to be held together by adhesion.

adherend, *n*—a body held to another body by an adhesive. (See also **substrate**.)

adherend preparation, *n*—See **surface preparation**.

adhesion, *n*—the state in which two surfaces are held together by interphase forces which may consist of chemical forces or interlocking action, or both. (R)

mechanical adhesion, *n*—adhesion between surfaces in which the adhesive holds the parts together by interlocking action.

specific adhesion, *n*—adhesion between surfaces which are held together by intermolecular forces of a chemical or physical nature. (2000) (R)

adhesion promoter, *n*—a substance used to improve bonding of the adhesive to the substrate. (Compare coupling agent and primer.)

DISCUSSION—The adhesion promoter may be added to an adhesive formulation or applied to the substrate.

adhesive, *n*—a substance capable of holding materials together by surface attachment. (See also **glue**, **gum**, **mucilage**, **paste**, **resin**, and **sizing**.)

DISCUSSION—Adhesive is the general term and includes among others cement, glue, mucilage, and paste. These terms are loosely used interchangeably. Various descriptive adjectives are applied to the term adhesive to indicate certain characteristics as follows:

- (1) Physical form, that is, liquid adhesive, tape adhesive
- (2) Chemical type, that is, silicate adhesive, resin adhesive
- (3) Materials bonded, that is, paper adhesive, metal-plastic adhesive
- (4) Conditions of use, that is, hot-setting adhesive

adhesive, assembly, *n*— See **assembly adhesive**.

adhesive, bulk, *n*— See **bulk adhesive**.

adhesive, casein, *n*— See **casein adhesive**.

adhesive, cellular, *n*— See **cellular adhesive**.

adhesive, cold-setting, *n*—See **cold-setting adhesive**.

adhesive, contact, *n*— See **contact adhesive**.

adhesive, foamed, *n*— See **foamed adhesive**.

adhesive, gap-filling, *n*—See **gap-filling adhesive**.

adhesive, heat activated, *n*—See **heat activated adhesive**.

adhesive, hot-melt, *n*— See **hot-melt adhesive**.

adhesive, hot-setting, *n*—See **hot-setting adhesive**.

adhesive, intermediate-temperature-setting, *n*—See **intermediate-temperature-setting adhesive**.

adhesive, mastic, *n*— See **mastic adhesive**.

adhesive, multiple-layer, *n*—See **multiple-layer adhesive**.

¹ This terminology is under the jurisdiction of ASTM Committee D14 on Adhesives and is the direct responsibility of Subcommittee D14.04 on Terminology.

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