

Standard Test Method for Determination of Extrudability of Cartridge Adhesives¹

This standard is issued under the fixed designation D 5267; 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 measures the amount of force necessary to extrude an adhesive from a cartridge at a given temperature.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

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:

D 907 Terminology of Adhesives²

3. Terminology

3.1 Definitions—Many terms in this test method are defined in Terminology D 907.

4. Significance and Use

4.1 Cartridge adhesives are typically used at job sites in a wide variety of temperature ranges. These products may be exposed to cold temperatures, where one of the limiting application factors is whether the product can be extruded from the cartridge.

4.2 The test method quantitatively measures the force necessary to extrude a cartridge adhesive at a given temperature. This provides the formulator with results that can assist in formulation development and the end user with information for use in selecting a product for general usage.

4.3 By measuring (the ease of) extrusion from the cartridge, the test method can also be used as a quality control tool to measure the shelf life stability of a product.

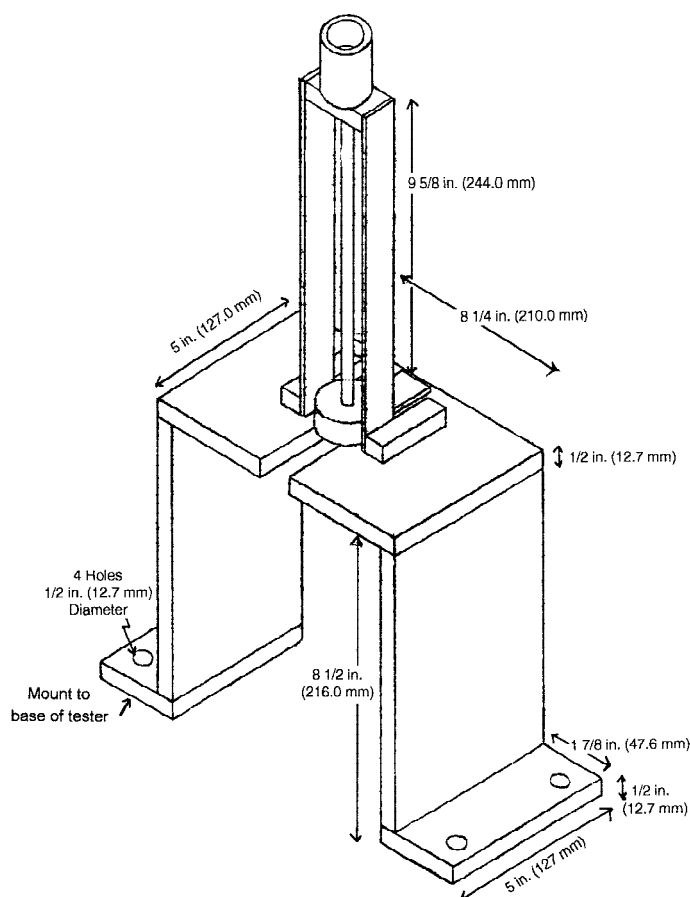


FIG. 1 Test Fixture for Measuring Extrusion from Cartridge

5. Apparatus

5.1 The test fixture is shown in Fig. 1. Details are shown in Figs. 2-4.³ Make the framework from aluminum. Make the rod and plunger combination from steel.

5.2 The test fixture is designed to be fitted onto a test machine capable of measuring compressive strength.

¹ This test method is under the jurisdiction of ASTM Committee D-14 on Adhesives and is the direct responsibility of Subcommittee D14.10 on Working Properties.

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² *Annual Book of ASTM Standards*, Vol 15.06.

³ The apparatus is also available from Browning Technology, Inc., 1256 Stanley Ave., Dayton, OH 45404.