



Designation: **C681–03 (Reapproved 2009) C681 – 14**

Standard Test Method for Volatility of Oil- and Resin-Based, Knife-Grade, Channel Glazing Compounds¹

This standard is issued under the fixed designation C681; 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 describes the determination of the volatility of oil- and resin-based, knife-grade, channel glazing compounds.

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~~ mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 The subcommittee with jurisdiction is not aware of any similar ISO standard.

1.4 *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:*

C717 Terminology of Building Seals and Sealants

3. Terminology

3.1 *Definitions*—Refer to Terminology **C717** for definitions of the following terms: ~~glazing, compound, compound, channel, and standard conditions.~~

3.2 *Description of Term*—Refer to Terminology **C717** for the description of the following term: ~~channel.~~

4. Summary of Test Method

4.1 The channel glazing compound is placed into a tared aluminum dish and weighed. The test specimen is then placed into an oven for a period of 3 h. After cooling, the test specimen is reweighed and the percent of volatile matter calculated. ~~1-14~~

5. Significance and Use

5.1 This test method provides a guide as to the amount of volatile matter that will be emitted from a channel glazing compound when tested by this test method.

6. Apparatus

6.1 *Cabinet or Room*, capable of maintaining a ~~temperature of 73.4 ± 3.6°F (23 ± 2°C) at 50~~ standard conditions of temperature and relative humidity as defined in **C717** ± 5% relative humidity for extended periods of time.

6.2 *Forced-Draft Oven*, capable of maintaining a temperature of 220 ± 5°F (104 ± 3°C) for extended periods of time.

6.3 *Dish*, aluminum foil, 2.5 in. (64 mm) in diameter by 0.75 in. (19 mm) deep, with a flat bottom.

6.4 *Balance*, laboratory analytical type.

6.5 *Steel Spatula or Putty Knife*, with a blade about 4 in. (102 mm) long and 0.75 in. (19 mm) wide.

6.6 *Desiccator*.

¹ This test method is under the jurisdiction of ASTM Committee **C24** on Building Seals and Sealants and is the direct responsibility of Subcommittee **C24.20** on General Test Methods.

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