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Standard Specification for Preformed Tape Sealants for Glazing Applications¹

This standard is issued under the fixed designation C 1281; 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 specification describes preformed tape sealants for use in glazing applications. These materials are generally used to serve as components of glazing systems. They are intended to serve as a water and air barrier.

1.2 This specification is not intended for preformed foam tape sealants.

1.3 The values stated in SI units are to be regarded as the standard. The values in parentheses are provided for information purposes only.

1.4 The following precautionary statement pertains only to the test method section of this specification. *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:

- C 717 Terminology of Building Seals and Sealants²
- C 765 Test Method for Low-Temperature Flexibility of Preformed Tape Sealants²
- C 771 Test Method for Weight Loss After Heat Aging of Preformed Tape Sealants²
- C 772 Test Method for Oil Migration or Plasticizer Bleed-Out of Preformed Tape Sealants²
- C 879 Test Method for Release Papers Used with Preformed Tape Sealants²
- C 908 Test Method for Yield Strength of Preformed Tape Sealants²
- C 972 Test Method for Compression-Recovery of Preformed Tape Sealants²
- C 1016 Test Method for Determination of Water Absorption of Sealant Backing (Joint Filler) Material²
- C 1266 Test Method for Flow Characteristics of Preformed Tape Sealants²

3. Terminology

3.1 *Definitions*—The definitions of the following terms used in this specification are found in Terminology C 717: compression seal, glazing, tape sealant.

4. Materials and Manufacturers

4.1 The preformed tape sealant shall be composed of appropriate raw materials to result in conformance to this specification.

4.2 The preformed tape sealant shall be of uniform dimensions and consistency.

4.3 When properly applied, this material shall form a seal to prevent air and water from entering the system.

5. Requirements

5.1 The tape sealant in the original unopened container shall meet the requirements of this specification and remain suitable for use for a minimum of 12 months from the date of manufacture when stored at a temperature of 26.6°C (80°F) maximum.

5.2 *Physical Properties*—The physical properties of the material shall conform to the requirements specified in Table 1.

6. Significance and Use

6.1 This specification describes only preformed tape sealants for glazing applications. Their use is specific under glazing systems to serve as a water and air barrier. The test methods chosen are to determine their efficiency in this use. This specification does not describe all required properties of the preformed tape sealants. It should be recognized by the purchaser and design professional that not all preformed tape sealants meeting this specification are suitable for all applications. In some instances, additional requirements will be agreed to by the supplier and user.

7. Sampling

7.1 The preformed tape sealant to be tested for conformance with the requirements of this specification shall be taken directly from a randomly selected commercial container as supplied by the manufacturer.

8. Test Methods

8.1 All test methods described in the following paragraphs,

¹ This specification is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.20 on General Sealant Standards.

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² *Annual Book of ASTM Standards*, Vol 04.07.