



Designation: C1021 – 08 (Reapproved 2023)

Standard Practice for Laboratories Engaged in Testing of Building Sealants¹

This standard is issued under the fixed designation C1021; 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 practice describes the qualifications, including minimum requirements for personnel and equipment, duties, responsibilities, and services of independent commercial materials testing laboratories engaged in the testing of caulking and sealants used in building construction.

1.2 *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.*

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

1.4 *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:*²

- C510 Test Method for Staining and Color Change of Single- or Multicomponent Joint Sealants
- C603 Test Method for Extrusion Rate and Application Life of Elastomeric Sealants
- C639 Test Method for Rheological (Flow) Properties of Elastomeric Sealants
- C661 Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer
- C679 Test Method for Tack-Free Time of Elastomeric Sealants
- C681 Test Method for Volatility of Oil- and Resin-Based, Knife-Grade, Channel Glazing Compounds

¹ This practice is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.10 on Specifications, Guides and Practices.

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² 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.

- C711 Test Method for Low-Temperature Flexibility and Tenacity of One-Part, Elastomeric, Solvent-Release Type Sealants
- C712 Test Method for Bubbling of One-Part, Elastomeric, Solvent-Release Type Sealants
- C717 Terminology of Building Seals and Sealants
- C719 Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)
- C731 Test Method for Extrudability, After Package Aging, of Latex Sealants
- C732 Test Method for Aging Effects of Artificial Weathering on Latex Sealants
- C734 Test Method for Low-Temperature Flexibility of Latex Sealants After Artificial Weathering
- C736 Test Method for Extension-Recovery and Adhesion of Latex Sealants
- C792 Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants
- C793 Test Method for Effects of Laboratory Accelerated Weathering on Elastomeric Joint Sealants
- C794 Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants
- C834 Specification for Latex Sealants
- C910 Test Method for Bond and Cohesion of One-Part Elastomeric Solvent Release-Type Sealants
- C920 Specification for Elastomeric Joint Sealants
- C961 Test Method for Lap Shear Strength of Sealants
- C1087 Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems
- C1135 Test Method for Determining Tensile Adhesion Properties of Structural Sealants
- C1183 Test Method for Extrusion Rate of Elastomeric Sealants
- C1184 Specification for Structural Silicone Sealants
- C1216 Test Method for Adhesion and Cohesion of One-Part Elastomeric Solvent Release Sealants
- C1241 Test Method for Volume Shrinkage of Latex Sealants During Cure
- C1246 Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants After Cure