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Standard Specification for Flexible Poly (Vinyl Chloride) (PVC) Gaskets used in Connection of Vitreous China Plumbing Fixtures to Sanitary Drainage Systems¹

This standard is issued under the fixed designation A1045; 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 covers material and performance requirements for plasticized PVC compression gaskets used in the connection of residential and commercial vitreous china plumbing fixtures to 2-, 3-, and 4-in. sanitary drain lines. These type gaskets are inserted into and compress against the inside diameter of the sewer pipe, closet or urinal flange while attaching to the vitreous china plumbing fixture with a flexible adhesive. The result is a gas- and water-tight seal.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *This standard does not purport to address all of the safety concerns, is any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.*

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

A644 Terminology Relating to Iron Castings

D5926 Specification for Poly (Vinyl Chloride) (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems

¹ This specification is under the jurisdiction of ASTM Committee A04 on Iron Castings and is the direct responsibility of Subcommittee A04.75 on Gaskets and Coupling for Plumbing and Sewer Piping.

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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.

2.2 *ASME Standards:*³

ASME A112.19.2M Vitreous China Plumbing Fixtures

3. Terminology

3.1 *Definitions*—For definitions of terms in this specification, refer to Terminology A644.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *closet flange, n*—a pipe fitting that secures the water closet to the floor and the sanitary drain line.

3.2.2 *urinal, n*—a plumbing fixture that receives only liquid body waste and, on demand, conveys the waste through a trap seal into a gravity drainage system.

3.2.3 *urinal flange, n*—a pipe fitting that secures a rear outlet wall-mounted urinal to the sanitary drain line.

3.2.4 *vitreous china plumbing fixture, n*—urinal, water closet, or both.

3.2.5 *water closet, n*—a plumbing fixture having a water-containing receptor which receives liquid and solid body waste and upon actuation conveys the waste through an exposed integral trap seal into a gravity drainage system.

4. Materials and Manufacture

4.1 These type gaskets are manufactured principally from virgin injection-grade plasticized PVC compounds. Recycled materials may be used in this product in accordance with Section 5.

4.2 Adhesives used in the attachment of vitreous china plumbing fixture gaskets shall be compatible with the component gasket material and the sanitary drain system. Butyl rubber-based adhesives are known to have such characteristics.

5. Gasket Requirements

5.1 Physical and mechanical properties of plasticized PVC gaskets for the connection of vitreous china plumbing fixtures to the sanitary drainage system shall comply with Specification D5926.

³ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Two Park Ave., New York, NY 10016-5990, <http://www.asme.org>.