



Standard Specification for Poly (Vinyl Chloride) (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems¹

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1. Scope*

1.1 This specification describes material and physical requirements for nonrigid poly (vinyl chloride) (PVC) preformed molded and spliced gaskets used in mechanical couplings. These couplings are used in gravity flow drain, waste, and vent (DWV), sewer, sanitary, and storm plumbing systems. They include couplings to join similar and dissimilar piping sizes and piping material.

1.2 Recycled materials may be used in this product in accordance with the requirements in Section 4.

1.3 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.

NOTE 1—There is no known ISO equivalent to this standard.

1.4 The following safety hazards caveat pertains only to the test method portion, Section 7, 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*:²

- C717 Terminology of Building Seals and Sealants
- D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension
- D471 Test Method for Rubber Property—Effect of Liquids

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is under the direct responsibility of Subcommittee D20.24 on Plastic Building Products.

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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.

- D573 Test Method for Rubber—Deterioration in an Air Oven
- D618 Practice for Conditioning Plastics for Testing
- D624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
- D746 Test Method for Brittleness Temperature of Plastics and Elastomers by Impact
- D883 Terminology Relating to Plastics
- D1149 Test Methods for Rubber Deterioration—Cracking in an Ozone Controlled Environment
- D1203 Test Methods for Volatile Loss From Plastics Using Activated Carbon Methods
- D1600 Terminology for Abbreviated Terms Relating to Plastics
- D2240 Test Method for Rubber Property—Durometer Hardness
- D2287 Specification for Nonrigid Vinyl Chloride Polymer and Copolymer Molding and Extrusion Compounds
- D3892 Practice for Packaging/Packing of Plastics
- D4968 Guide for Annual Review of Test Methods and Specifications for Plastics
- D6147 Test Method for Vulcanized Rubber and Thermoplastic Elastomer—Determination of Force Decay (Stress Relaxation) in Compression
- D7209 Guide for Waste Reduction, Resource Recovery, and Use of Recycled Polymeric Materials and Products

3. Terminology

- 3.1 *General*—Definitions are in accordance with Terminologies C717, D883 and D1600, unless otherwise indicated.
- 3.2 *Definitions of Terms Specific to This Standard*:
 - 3.2.1 *flash*—the excess material protruding from the surface of a molded article at the mold junction.

4. Materials and Manufacture

4.1 This specification covers preformed gaskets made principally from virgin nonrigid PVC molding compound conforming to the requirements of Specification D2287 for general purpose, electrical requirements excluded class PVC 30267, 40366 or 50465. Refer to Table 1 in Specification D2287.

*A Summary of Changes section appears at the end of this standard.