



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

This standard is issued under the fixed designation D 5926; 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 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 the standard. The values given in parentheses are given for information only.

NOTE 1—There are no ISO standards covering the primary subject matter of this specification.

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:

- C 717 Terminology of Building Seals and Sealants²
- D 412 Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension³
- D 618 Practice for Conditioning Plastics and Electrical Insulating Materials for Testing⁴
- D 624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers³
- D 746 Test Method for Brittleness Temperature of Plastics and Elastomers by Impact⁴
- D 792 Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement⁴

¹ This specification is under the jurisdiction of ASTM Committee D-20 on Plastics and is under the direct responsibility of Subcommittee D20.24 on Plastic Building Products.

Current edition approved March 10, 1996. Published May 1996.

² Annual Book of ASTM Standards, Vol 04.07.

³ Annual Book of ASTM Standards, Vol 09.01.

⁴ Annual Book of ASTM Standards, Vol 08.01.

- D 883 Terminology Relating to Plastics⁴
- D 1203 Test Methods for Volatile Loss from Plastics Using Activated Carbon Method⁴
- D 1600 Terminology for Abbreviated Terms Relating to Plastics⁴
- D 1898 Practice for Sampling of Plastics⁴
- D 2240 Test Method for Rubber Property—Durometer Hardness³
- D 2287 Specification for Nonrigid Vinyl Chloride Polymer and Copolymer Molding and Extrusion Compounds⁴
- D 3892 Practice for Packaging/Packing of Plastics⁵
- D 5033 Guide for the Development of Standards Relating to the Proper Use of Recycled Plastics⁶

3. Terminology

3.1 *General*—Definitions are in accordance with Terminologies C 717, D 883 and D 1600, 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 D 2287 for general purpose, electrical requirements excluded class PVC 3 5 2 6 7. Refer to Table 1 in Specification D 2287.

4.1.1 This class compound has the following material property requirements:

Durometer hardness, A scale, Test Method D 2240	55 to 64
Specific gravity (nominal), 23°C/23°C, Test Method D 792	1.35 to 1.39
Tensile strength, min, psi (MPa), Test Method D 412	1000 (8.9)
Volatile loss at 105°C, max, %, Test Method D 1203	6.0
Brittleness temperature, Test Method D 746, max	–40°C

4.2 The molding compound shall have a minimum percent elongation by Test Method D 412 of 250 %.

4.3 The molding compound shall have a minimum tear strength by Test Method D 624 of 150 lb/in. (268.5 N/cm).

4.4 Recycled materials, as defined in Guide D 5033, may be used in this product if all the requirements in Sections 4 and 5 are met by the recycle material.

4.5 Qualification testing for material physical requirements

⁵ Annual Book of ASTM Standards, Vol 08.02.

⁶ Annual Book of ASTM Standards, Vol 08.03.