



Designation: D2680 – 20

Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Composite Sewer Piping¹

This standard is issued under the fixed designation D2680; 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 thermoplastic composite pipe, fittings and a joining system for use in gravity flow, nonpressure sanitary sewer, and storm drain installations. The pipe and fittings are made of ABS or PVC plastic material. Recommended installation practices are referenced in [Appendix X1](#).

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 The following safety hazards caveat pertains only to the test method portion, Section 10, 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, health, and environmental practices and 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

- [D618 Practice for Conditioning Plastics for Testing](#)
- [D1084 Test Methods for Viscosity of Adhesives](#)
- [D1600 Terminology for Abbreviated Terms Relating to Plastics](#)
- [D1784 Classification System and Basis for Specification for Rigid Poly\(Vinyl Chloride\) \(PVC\) Compounds and Chlorinated Poly\(Vinyl Chloride\) \(CPVC\) Compounds](#)

- [D2122 Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings](#)
- [D2152 Test Method for Adequacy of Fusion of Extruded Poly\(Vinyl Chloride\) \(PVC\) Pipe and Molded Fittings by Acetone Immersion](#)
- [D2235 Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene \(ABS\) Plastic Pipe and Fittings](#)
- [D2321 Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications](#)
- [D2412 Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading](#)
- [D2564 Specification for Solvent Cements for Poly\(Vinyl Chloride\) \(PVC\) Plastic Piping Systems](#)
- [D3138 Specification for Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene \(ABS\) and Poly\(Vinyl Chloride\) \(PVC\) Non-Pressure Piping Components](#)
- [D3212 Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals](#)
- [D3965 Classification System and Basis for Specifications for Rigid Acrylonitrile-Butadiene-Styrene \(ABS\) Materials for Pipe and Fittings](#)
- [D4396 Specification for Rigid Poly\(Vinyl Chloride\) \(PVC\) and Chlorinated Poly\(Vinyl Chloride\) \(CPVC\) Compounds for Plastic Pipe and Fittings Used in Nonpressure Applications](#)
- [F402 Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings](#)
- [F412 Terminology Relating to Plastic Piping Systems](#)
- [F477 Specification for Elastomeric Seals \(Gaskets\) for Joining Plastic Pipe](#)
- [F913 Specification for Thermoplastic Elastomeric Seals \(Gaskets\) for Joining Plastic Pipe](#)

2.2 Federal Standard:

- [Fed. Std. No. 123 Marking for Shipment \(Civil Agencies\)³](#)

2.3 Military Standard:

- [MIL-STD-129 Marking for Shipment and Storage³](#)

¹ This specification is under the jurisdiction of ASTM Committee F17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.62 on Sewer. Current edition approved Aug. 1, 2020. Published September 2020. Originally published as D2680 – 68 T. Last previous edition approved in 2014 as D2680 – 01(2014). DOI: 10.1520/D2680-20.

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.

³ Available from DLA Document Services, Building 4/D, 700 Robbins Ave., Philadelphia, PA 19111-5094, <http://quicksearch.dla.mil>.

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