



Standard Specification for Rigid (Unplasticized) Poly(Vinyl Chloride) (PVC) Soffit¹

This standard is issued under the fixed designation D 4477; 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 establishes requirements and test methods for the materials, dimensions, camber, impact strength, expansion, and appearance of extruded single-wall soffit manufactured from rigid (unplasticized) PVC compound. Methods of indicating compliance with this specification are also provided.

1.2 The use of PVC recycled plastic in this product shall be in accordance with the requirements in Section 4.

1.3 Rigid (unplasticized) poly(vinyl chloride) (PVC) siding is covered in Specification D 3679.

1.4 Soffit produced to this specification shall be installed in accordance with Practice D 4756. Reference shall also be made to the manufacturer's installation instructions for the specific product to be installed.

NOTE 1—Information with regard to soffit maintenance shall be obtained from the manufacturer.

1.5 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.6 The following precautionary caveat pertains to the test method portion only, Section 6 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.*

NOTE 2—There is no known ISO equivalent to this standard.

2. Referenced Documents

2.1 ASTM Standards:²

D 523 Test Method for Specular Gloss

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is 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.

D 618 Practice for Conditioning Plastics and Electrical Insulating Materials for Testing

D 635 Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position

D 696 Test Method for Coefficient of Linear Thermal Expansion of Plastics

D 883 Terminology Relating to Plastics

D 1600 Terminology Relating to Abbreviations, Acronyms, and Codes for Terms Relating to Plastics

D 2244 Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates

D 3679 Specification for Rigid (Unplasticized) Poly(Vinyl Chloride) (PVC) Siding

D 3892 Practice for Packaging/Packing of Plastics

D 4226 Test Methods for Impact Resistance of Rigid Poly-(Vinyl Chloride) (PVC) Building Products

D 4756 Practice for the Installation of Poly(Vinyl Chloride) (PVC) Siding and Soffit

D 5033 Guide for the Development of Standards Relating to the proper Use of Recycled Plastics

D 5947 Test Method of Physical Dimensions of Solid Plastic Specimens

E 631 Terminology of Building Constructions

E 805 Practice for Identification of Instrumental Methods of Color or Color-Difference Measurement of Materials

3. Terminology

3.1 *Definitions*—Definitions are in accordance with Terminologies D 883, D 1600, and E 631, unless otherwise specified.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *vinyl soffit, n*—a shaped material, made principally from rigid poly(vinyl chloride) (PVC) that is used to clad the underside of a roof overhang.

3.2.2 *Discussion*—Any exception to a homogeneous rigid PVC compound is present in a coextruded or laminated capstock.

4. Materials and Manufacture

4.1 The soffit, shall be made of one or more layers of poly(vinyl chloride) (PVC) compound. Any layers of materials other than poly (vinyl chloride) (PVC) compound shall be kept to less than 20% by volume.

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