



Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors¹

This standard is issued under the fixed designation D4726; 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 for the material properties, including dimensional stability, weatherability, and extrusion quality, of rigid poly(vinyl chloride) (PVC) exterior profile extrusions used for assembled windows and doors. Methods for testing and for identifying exterior profile extrusions that comply with this specification are also provided.

1.2 The use of rigid PVC recycled plastic in this product shall be in accordance with the requirements in Section 6.

NOTE 1—Information with regard to application, assembly, and installation should be obtained from the manufacturers of the profiles and of the windows and doors.

NOTE 2—Refer to Specification D3678 for interior profile extrusions.

1.3 Color-hold guidelines are provided in an appendix for the manufacturer's product development and quality performance use.

1.4 Color-hold guidelines are presently limited to white, grey, beige, light brown, and dark brown (see Figs. X1.1 through X1.5). Additional colors will be added as color guidelines are developed.

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

NOTE 3—There is no known ISO equivalent to this standard.

1.6 The text of this standard references notes and footnotes, which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of this standard.

1.7 The following safety hazards caveat pertains only to the test methods portion, Section 11, 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.

1.8 *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
- D883 Terminology Relating to Plastics
- D1042 Test Method for Linear Dimensional Changes of Plastics Caused by Exposure to Heat and Moisture
- D1435 Practice for Outdoor Weathering of Plastics
- D1600 Terminology for Abbreviated Terms Relating to Plastics
- D2244 Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
- D3678 Specification for Rigid Poly(Vinyl Chloride) (PVC) Interior-Profile Extrusions
- D3892 Practice for Packaging/Packing of Plastics
- D4216 Specification for Rigid Poly(Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly(Vinyl Chloride) (CPVC) Building Products Compounds
- D4226 Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products
- E631 Terminology of Building Constructions
- E805 Practice for Identification of Instrumental Methods of Color or Color-Difference Measurement of Materials
- G147 Practice for Conditioning and Handling of Nonmetallic Materials for Natural and Artificial Weathering Tests

3. Terminology

3.1 *General*—Definitions are in accordance with Terminologies D883 or E631 and D1600, unless otherwise indicated.

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.

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