



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 D 4726; 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 Rigid PVC recycled plastic may be used in this product in accordance with requirements in Section 5.

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 D 3678 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 the standard. The values in parentheses are for information only.

NOTE 3—There are no ISO standards covering the primary subject matter of this specification.

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 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 and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:

D 618 Practice for Conditioning Plastics and Electrical Insulating Materials for Testing²

D 883 Terminology Relating to Plastics²

D 1042 Test Method for Linear Dimensional Changes of Plastics Under Accelerated Service Conditions²

D 1435 Practice for Outdoor Weathering of Plastics²

D 1600 Terminology Relating to Abbreviations, Acronyms, and Codes for Terms Relating to Plastics²

D 1898 Practice for Sampling of Plastics³

D 2244 Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates⁴

D 3678 Specification for Rigid Poly(Vinyl Chloride) (PVC) Interior-Profile Extrusions⁵

D 3892 Practice for Packaging/Packing of Plastics⁶

D 4099 Specification for Poly(Vinyl Chloride) (PVC) Prime Windows⁵

D 4216 Specification for Rigid Poly(Vinyl Chloride) (PVC) and Related Plastic Building Products Compounds⁵

D 4226 Test Method for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products⁵

D 5033 Guide for the Development of Standards Relating to the Proper Use of Recycled Plastics⁶

E 631 Terminology of Building Constructions⁷

E 805 Practice for Identification of Instrumental Methods of Color or Color-Difference, Measurement of Materials⁸

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 Annual Book of ASTM Standards, Vol 08.01.

³ Annual Book of ASTM Standards, Vol 08.02.

⁴ Annual Book of ASTM Standards, Vol 06.01.

⁵ Annual Book of ASTM Standards, Vol 08.04.

⁶ Annual Book of ASTM Standards, Vol 08.03.

⁷ Annual Book of ASTM Standards, Vol 04.07.

⁸ Annual Book of ASTM Standards, Vol 14.02.

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

