



## Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Interior-Profile Extrusions<sup>1</sup>

This standard is issued under the fixed designation D 3678; 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 reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

### 1. Scope \*

1.1 This specification establishes requirements for the material properties, including dimensional stability and extrusion quality, of rigid, poly(vinyl chloride) (PVC) interior-profile extrusions. Methods for identifying interior-profile extrusions that comply with the requirements of this specification are provided.

1.2 Rigid PVC recycled plastic may be used in this product in accordance with the requirements in Sections 6 and 7.

1.3 Rigid PVC compounds for interior building product applications are covered in Specification D 1784.

1.4 Rigid PVC exterior profile extrusions for assembled windows and doors are covered in Specification D 4726.

1.5 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.

1.6 The values stated in SI units are to be regarded as the standard. The values given in parentheses are given for information only.

NOTE 1—Information with regard to application should be obtained from the manufacturers of the profiles.

NOTE 2—There are no ISO standards covering the primary subject matter in this specification.

1.7 The following precautionary caveat pertains only to the test method portion, Section 8, 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 Testing<sup>2</sup>

D 696 Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C<sup>2</sup>

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

Current edition approved July 10, 1997. Published November 1997. Originally published as D 3678 – 78. Last previous edition D 3678 – 96.

<sup>2</sup> Annual Book of ASTM Standards, Vol 08.01.

D 883 Terminology Relating to Plastics<sup>2</sup>

D 1042 Test Method for Linear Dimensional Changes of Plastics Under Accelerated Service Conditions<sup>2</sup>

D 1600 Terminology for Abbreviated Terms Relating to Plastics<sup>2</sup>

D 1784 Specification for Rigid Poly(Vinyl) Chloride (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds<sup>2</sup>

D 2152 Test Method for Adequacy of Fusion of Extruded Poly(Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion<sup>3</sup>

D 3892 Practice for Packaging/Packing of Plastics<sup>4</sup>

D 4726 Specification for White Rigid Poly (Vinyl Chloride) (PVC) Exterior Profile Extrusions Used for Assembled Windows and Doors<sup>3</sup>

D 5033 Guide for the Development of Standards Relating to the Proper Use of Recycled Plastics<sup>5</sup>

E 631 Terminology of Building Constructions<sup>6</sup>

### 3. Terminology

3.1 *General*—Definitions are in accordance with Terminology D 883 or Terminology E 631 and abbreviations with Terminology D 1600, unless otherwise indicated.

### 4. Significance and Use

4.1 The purpose of this specification is to establish on a national basis, a recognized standard of quality for rigid poly(vinyl chloride) (PVC) interior-profile extrusions for interior use other than cellular products, piping, tubing, and window and door profiles used in finished building products. The information contained in this standard is intended to be helpful to producers, distributors, and users, and to promote understanding between buyers and sellers. It is also intended to serve as the basis for requirements on finished interior building products which are either made from or employ rigid PVC profile extrusions in their construction.

### 5. Classification

5.1 This standard covers three classes of rigid PVC interior-profile extrusions as follows:

*Class 1*—Normal impact

<sup>3</sup> Annual Book of ASTM Standards, Vol 08.04.

<sup>4</sup> Annual Book of ASTM Standards, Vol 08.02.

<sup>5</sup> Annual Book of ASTM Standards, Vol 08.03.

<sup>6</sup> Annual Book of ASTM Standards, Vol 04.11.