



Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles Used for Fencing¹

This standard is issued under the fixed designation F 964; 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 and physical properties, including dimensional tolerances and extrusion quality, for rigid poly (vinyl-chloride) (PVC) exterior profiles used for agricultural, commercial, and residential fencing.

NOTE 1—Agricultural fencing system recommendations for specific types of animals shall be obtained from the manufacturer.

NOTE 2—Application, installation, and maintenance of fencing systems information shall be obtained from the manufacturer.

1.2 The material used in these exterior-profiles is limited to rigid poly (vinyl chloride) (PVC) compounds in a single homogeneous extrusion or in a coextrusion of two or more PVC compounds in distinct layers.

1.3 The exterior profiles covered by this specification are limited to round or rectangular tubular-shaped products with exterior walls of uniform thickness.

1.4 Reference shall be made to Specification D 4726 for exterior profiles of nonuniform exterior wall thickness or of nontubular shape, or both.

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

1.6 *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 635 Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position²

D 696 Test Method for Coefficient of Linear Thermal Expansion of Plastics Between –30°C and 30°C²

D 883 Terminology Relating to Plastics²

D 1435 Practice for Outdoor Weathering of Plastics²

D 1600 Terminology for Abbreviated Terms Relating to Plastics²

D 1784 Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds^{2,3}

D 1898 Practices for Sampling of Plastics²

D 2444 Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)³

D 4726 Specification for White Rigid Poly (Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors³

3. Terminology

3.1 General—Definitions are in accordance with Terminologies D 883 and D 1600, unless otherwise indicated.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *capstock*—the outer layer in a coextrusion exposed to weathering.

3.2.2 *coextrusion*—profiles extruded from two or more concentric streams of PVC compounds.

3.2.2.1 *DISCUSSION*—The separate PVC streams may be compounded to provide different physical characteristics such as strength or weathering.

3.2.3 *reworked material*—a plastic from a manufacturer's facility of known, compatible composition meeting the material requirement of this specification that has been reground, pellitized, or solvated after having been previously processed by molding, extrusion, etc.

3.2.4 *single material*—profiles extruded from a single PVC compound.

3.2.4.1 *DISCUSSION*—Weathering and other physical characteristics are uniform throughout the profile.

3.2.5 *substrate*—inner layer(s) of a coextrusion not exposed to weathering.

3.2.6 *temperate northern climate*—in weather testing, a North American metropolitan area testing site located within 73 to 100° W longitude and 37 to 45° N latitude.

3.2.7 *tubular shaped product*—round or rectangular hollow profile with exterior walls of uniform thickness.

¹ This specification is under the jurisdiction of ASTM Committee F-14 on Fences and is the direct responsibility of Subcommittee F14.15 on Alternate Fencing Systems.

Current edition approved April 15, 1994. Published June 1994.

² *Annual Book of ASTM Standards*, Vol 08.01.

³ *Annual Book of ASTM Standards*, Vol 08.04.