



Standard Specification for Nonrigid Vinyl Chloride Polymer and Copolymer Molding and Extrusion Compounds¹

This standard is issued under the fixed designation D 2287; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers nonrigid vinyl chloride polymer and copolymer classes in which the resin portion of the composition contains at least 90 % vinyl chloride. The remaining 10 % may include one or more monomers copolymerized with vinyl chloride or consist of other resins mechanically blended with polyvinyl chloride or copolymers thereof.

1.2 These nonrigid vinyl compounds are defined by a hardness range and include the necessary stabilizers, plasticizers, fillers, dyes, and pigments to meet the designated requirements.

1.3 This specification includes nonrigid vinyl chloride compounds recommended for compression molding, injection molding, and extrusion, but it must be recognized that particular compounds may not be suitable for all these means of fabrication.

NOTE 1—This standard is similar in content, but not technically equivalent to ISO 2898-1:1986 and ISO 2898-2:1989.

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

1.5 *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.*

1.6 The text of this specification 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 specification.

1.7 Recycle PVC plastics meeting the requirements of this specification may be used in some applications. Refer to the

specific requirements in the Materials and Manufacture section of the applicable product standard.

2. Referenced Documents

2.1 ASTM Standards:

D 257 Test Methods for D-C Resistance or Conductance of Insulating Materials²

D 412 Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers—Tension³

D 618 Practice for Conditioning Plastics for Testing⁴

D 635 Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position⁴

D 746 Test Method for Brittleness Temperature of Plastics and Elastomers by Impact⁴

D 792 Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement⁴

D 883 Terminology Relating to Plastics⁴

D 1203 Test Methods for Volatile Loss from Plastics Using Activated Carbon Methods⁴

D 1600 Terminology for Abbreviated Terms Relating to Plastics⁴

D 1898 Practice for Sampling of Plastics⁴

D 2240 Test Method for Rubber Property—Durometer Hardness³

D 3182 Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets³

D 3892 Practice for Packaging/Packing of Plastics⁵

2.2 ISO Standards:⁶

ISO 2898-1:1986 Plastics—Pesticide Compounds of Homopolymers and Copolymers of Vinyl Chloride (PVC-P)

¹ This specification is under the jurisdiction of ASTM Committee D-20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials (Section D20.15.07).

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This edition contains changes in 1.6 to accommodate BOCA requirements and to 1.7 and 14.1 to reference recycle plastics.

² Annual Book of ASTM Standards, Vol 10.01.

³ Annual Book of ASTM Standards, Vol 09.01.

⁴ Annual Book of ASTM Standards, Vol 08.01.

⁵ Annual Book of ASTM Standards, Vol 08.02.

⁶ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.