



Designation: D 729 – 95

AMERICAN SOCIETY FOR TESTING AND MATERIALS
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An American National Standard

Standard Specification for Vinylidene Chloride Molding Compounds¹

This standard is issued under the fixed designation D 729; 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 covers thermoplastic molding compounds composed of a copolymer of vinyl chloride and vinylidene chloride in the approximate ratio of 10 to 90, with suitable plasticizers, stabilizers, dyes, and pigments. The molding compounds are suitable for compression, injection, or extrusion molding.

1.2 The values stated in SI units are to be regarded as the standard.

NOTE 1—The properties included in this specification are those required to identify the types of molding materials covered. There may be other requirements necessary to identify particular characteristics. These will be added to the specification as their inclusion becomes generally desirable and the necessary test data and methods become available.

NOTE 2—There is no similar or equivalent ISO standard.

1.3 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 149 Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies²
- D 150 Test Methods for A-C Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulating Materials³
- D 256 Test Methods for Impact Resistance of Plastics and Electrical Insulating Materials²
- D 257 Test Methods for D-C Resistance or Conductance of Insulating Materials⁴
- D 374 Test Methods for Thickness of Solid Electrical Insulation³

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 D20.15.01).

Current edition approved Dec. 10, 1995. Published February 1996. Originally published as D 729 – 43 T. Last previous edition D 729 – 91.

This edition contains changes in Section 1 to add an ISO equivalency statement.

² Annual Book of ASTM Standards, Vol 08.01.

³ Annual Book of ASTM Standards, Vol 10.01.

⁴ Annual Book of ASTM Standards, Vol 10.02.

D 445 Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)⁵

D 568 Test Method for Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position²

D 569 Method of Measuring the Flow Properties of Thermoplastic Molding Materials²

D 570 Test Method for Water Absorption of Plastics²

D 638 Test Method for Tensile Properties of Plastics²

D 648 Test Method for Deflection Temperature of Plastics Under Flexural Load²

D 759 Recommended Practice for Conducting Physical Property Tests of Plastics at Subnormal and Super-normal Temperatures⁶

D 792 Test Methods for Specific Gravity (Relative Density) and Density of Plastics by Displacement²

D 883 Terminology Relating to Plastics²

D 1600 Terminology for Abbreviated Terms Relating to Plastics²

D 1898 Practice for Sampling of Plastics²

D 3892 Practice for Packaging/Packing of Plastics⁷

2.2 Military Standard⁸

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes

3. Terminology

3.1 *General:* Definitions are in accordance with Terminology D 883 and Terminology D 1600, unless otherwise indicated.

4. Type and Forms

4.1 This specification covers one general-purpose type of vinylidene chloride material in the form of powder or pellets.

5. General Requirements

5.1 The material shall be of uniform composition and so compounded as to conform to the requirements prescribed in this specification.

5.2 The form and color shall be as specified by the purchaser in the contract or order.

NOTE 3—Vinylidene chloride molding compounds are generally supplied in powder and pellet forms conforming to the following sieve analysis:

Powder:

retained on a No. 18
(1.00-mm) sieve

not over 1%

⁵ Annual Book of ASTM Standards, Vol 05.01.

⁶ Discontinued, see 1982 Annual Book of ASTM Standards, Vol 08.01.

⁷ Annual Book of ASTM Standards, Vol 08.02.

⁸ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.