



Designation: D6713 – 24

Standard Specification for Extruded and Compression Molded Shapes Made from Poly(Vinylidene Fluoride) (PVDF)¹

This standard is issued under the fixed designation D6713; 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 the requirements and test methods for the material, dimensions, and workmanship, and the properties of extruded sheet, rod and tubular bar manufactured from PVDF.

1.2 The properties included in this specification are those required for the compositions covered. Requirements necessary to identify particular characteristics important to specialized applications are described by using the classification system given in Section 4.

1.3 The values stated in English units are to be regarded as the standard in all property and dimensional tables. For reference purposes, SI units are also included in Tables X and S-PVDF only.

1.4 The following safety hazards caveat pertains only to the test method or test methods described in 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

NOTE 1—There is no known ISO equivalent to this standard. ISO 12086-1 and ISO 12086-2 have pertinent information.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials.

Current edition approved May 1, 2024. Published May 2024. Originally approved in 2001. Last previous edition approved in 2021 as D6713 – 21. DOI: 10.1520/D6713-24.

2. Referenced Documents

2.1 *ASTM Standards*:²

D256 Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics

D618 Practice for Conditioning Plastics for Testing

D638 Test Method for Tensile Properties of Plastics

D790 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

D883 Terminology Relating to Plastics

D1600 Terminology for Abbreviated Terms Relating to Plastics (Withdrawn 2024)³

D3222 Specification for Unmodified Poly(Vinylidene Fluoride) (PVDF) Molding Extrusion and Coating Materials

D3892 Practice for Packaging/Packing of Plastics

D4000 Classification System for Specifying Plastic Materials

3. Terminology

3.1 *Definitions*:

3.1.1 *regrind (plastic)*, *n*—a product or scrap such as sprues and runners that have been reclaimed by shredding and granulating for use in-house.

3.1.2 For definitions of terms used in this specification and associated with plastics issues refer to the terminology contained in D883.

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *recycled-plastic shape*, *n*—a product made from up to 100 % post-consumer material.

3.2.2 *rod*, *n*—an extruded solid cylindrical shape with a minimum diameter of $\frac{1}{16}$ in.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

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