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Standard Specification for Extruded Rods and Bars Made From Rigid Poly(Vinyl Chloride) (PVC) and Chlorinated Poly(Vinyl Chloride) (CPVC)¹

This standard is issued under the fixed designation D6263; 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.

INTRODUCTION

This specification is intended to be a means of calling out mechanical grade plastic product used in the fabrication of end items or parts.

1. Scope~~Scope~~*

1.1 This specification covers requirements and test methods for the material, dimensions, and workmanship, and the properties of extruded shapes of rods and bars made from poly(vinyl chloride) (PVC), and chlorinated poly(vinyl chloride) (CPVC).

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

1.3 This specification allows for the use of regrind and recycled plastics as defined in Guide D7209 providing: products produced from regrind or recycled PVC material can be shown to meet the requirements of this standard with regard to material classification, physical performance, dimensions and workmanship; and the regrind or recycled plastics used have not been subjected to severe environments in post consumer applications (such as chemical service) which could adversely affect the end products performance when subjected to machining or critical applications or both.

1.4 The values are stated in inch-pound units and are regarded as the standard in all property and dimensional tables. For reference purposes, SI units are also included in Table 1 only.

1.5 The following safety hazards caveat pertains only to the test method portions section 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.*

NOTE 1—There is no known ISO equivalent to this standard.

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

D1784 Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds

D3892 Practice for Packaging/Packing of Plastics

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.20D20.15 on Plastic Lumber/Thermoplastic Materials (Section D20.20.02).

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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.

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

D7209 Guide for Waste Reduction, Resource Recovery, and Use of Recycled Polymeric Materials and Products (Withdrawn 2015)³

2.2 *ANSI Standard:*

Z1.4-1993 Sampling Procedures and Tables for Inspection by Attributes⁴

2.3 *NSF Standard:*

NSF Standard 61⁵

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

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁵ Available from NSF International, P.O. Box 130140, 789 N. Dixboro Rd., Ann Arbor, MI 48113-0140, <http://www.nsf.org>.