



Standard Classification System and Basis for Specification for Extruded and Compression Molded Shapes Made from Polycarbonate (PC)¹

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INTRODUCTION

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

1. Scope*

1.1 This classification system covers requirements and test methods for the material, dimensions, and workmanship, and the properties of extruded and compression molded plate, rod, and tubular bar manufactured from polycarbonate. This classification system allows for the use of recycled materials provided that all specifications are met.

1.2 This standard is not intended to cover materials used in glazing and signage as defined in 3.1.2 and 3.1.8. It is intended to be a means of calling out mechanical grade plastic products used for fabrication of end items or parts as defined in 3.1.3.

1.3 The properties included in this standard are those required for the compositions covered. Other requirements necessary to identify particular characteristics important to specialized applications are to be described by using the callout system given in Section 4.

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

1.5 The following precautionary caveat pertains only to the test method portions, Section 12, of this standard. *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.

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

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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
- D3892 Practice for Packaging/Packing of Plastics
- D3935 Classification System and Basis for Specification for Polycarbonate (PC) Unfilled and Reinforced Material
- D4000 Classification System for Specifying Plastic Materials

2.2 ANSI Standard:

- Z1.4-1993 Sampling Procedures and Tables for Inspection by Attributes³

3. Terminology

3.1 Definitions:

3.1.1 Except for the terms defined below, the terminology used in this classification system is in accordance with Terminologies D883 and D1600.

3.1.2 *glazing product, n*—a finished product which is glazed or set in frame or sash and not held by mechanical fasteners which pass through the product.

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

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