



Standard Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane¹

This standard is issued under the fixed designation D 4068; 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 flexible chlorinated polyethylene (CPE) sheeting which is used without mastic, bedding, or coating for construction of concealed water-containment membranes in applications where there is potential for costly secondary damage from leakage, and where very long-term reliable performance is essential. Examples are fountains, pools, planters, shower and safe pans, tile tubs, and similar installations where the membrane is inaccessible once construction is complete. Included are requirements for composition, strength and toughness, test methods, workmanship criteria, and methods of marking.

1.2 Manufacturers have the option to use recycled materials in this product. Recycled materials must be in accordance with the requirements in Section 4.

1.3 The test methods used to characterize the sheeting are intended to ensure quality and performance and are not necessarily adequate for design purposes. Test methods have been selected to be conducted primarily with liquids that simulate the environments to which the membrane will be subjected during actual installation and use.

1.4 This specification does not cover water-containment membranes exposed in use to ultraviolet light or direct sunlight.

1.5 The values stated in inch-pound units are to be regarded as the standard. The values in parentheses are given for information only.

NOTE 1—There is no similar or equivalent ISO standard.

1.6 The following safety hazards caveat pertains only to the test method portion, Section 14, 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.*

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.24 on Plastic Building Products.

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2. Referenced Documents

2.1 ASTM Standards:

- D 374 Test Methods for Thickness of Solid Electrical Insulation²
- D 412 Test Methods for Rubber Properties in Tension³
- D 543 Test Method for Resistance of Plastics to Chemical Reagents⁴
- D 618 Practice for Conditioning Plastics and Electrical Insulating Materials for Testing²
- D 751 Test Methods for Coated Fabrics⁵
- D 883 Terminology Relating to Plastics⁴
- D 1004 Test Method for Initial Tear Resistance of Plastic Film and Sheeting⁴
- D 1203 Test Method for Volatile Loss from Plastics Using Activated Carbon⁴
- D 1204 Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature⁴
- D 1876 Test Method for Peel Resistance of Adhesives (T-Peel Test)⁶
- D 1898 Practice for Sampling of Plastics⁷
- D 2136 Test Method for Coated Fabrics—Low-Temperature Bend Test³
- D 2240 Test Method for Rubber Property—Durometer Hardness³
- D 5033 Guide for The Development of Standards Relating to the Proper Use of Recycled Plastics⁷
- E 96 Test Methods for Water Vapor Transmission of Materials⁸

2.2 ANSI Document:

- Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways⁹

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 09.02.

⁶ Annual Book of ASTM Standards, Vol 15.06.

⁷ Annual Book of ASTM Standards, Vol 08.02.

⁸ Annual Book of ASTM Standards, Vol 04.06.

⁹ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

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