



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

This standard is issued under the fixed designation D4068; 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 standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

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

2. Referenced Documents

2.1 *ASTM Standards:*²

D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension

D543 Practices for Evaluating the Resistance of Plastics to Chemical Reagents

D618 Practice for Conditioning Plastics for Testing

D751 Test Methods for Coated Fabrics

D883 Terminology Relating to Plastics

D1004 Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheet

D1203 Test Methods for Volatile Loss From Plastics Using Activated Carbon Methods

D1204 Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheet or Film at Elevated Temperature

D1876 Test Method for Peel Resistance of Adhesives (T-Peel Test)

D2136 Test Method for Coated Fabrics—Low-Temperature Bend Test

D2240 Test Method for Rubber Property—Durometer Hardness

D4968 Practice for Annual Review of Test Methods and Specifications for Plastics

D5947 Test Methods for Physical Dimensions of Solid Plastics Specimens

D6988 Guide for Determination of Thickness of Plastic Film Test Specimens

D7209 Guide for Waste Reduction, Resource Recovery, and Use of Recycled Polymeric Materials and Products (Withdrawn 2015)³

E96/E96M Test Methods for Water Vapor Transmission of Materials

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 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