



**Summary of Substantive Changes
between the 2012 and the 2017 editions of
ASTM D4551 “Poly(Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-
Containment Membrane”**

Presented to the IAPMO Standards Review Committee on May 6, 2019

General: The changes to this standard should not have an impact on currently listed products. The changes are:

- Removed the reference to ASTM D7209 guide for the recycled material definition (see Section 5.2)
- Removed the color requirements for the sheeting (see Section 6.3)
- Excluded the length and width from the dimension requirements for the sheeting (see Section 7)
- Removed the Inspection Requirements from the Standard (Removed Section 13)

Section 2, Referenced Documents: Reference documents were added, revised or deleted as follows:

ASTM D374/D374M Test Methods for Thickness of Solid Electrical Insulation

~~*ASTM D7209 Guide for Waste Reduction, Resource Recovery, and Use of Recycled Polymeric Materials and Products*~~

Section 5, Materials and Manufacture: Removed the reference to ASTM D7209 guide for the recycled material definition as follows:

5.2 Recycle materials, ~~as defined in Guide D7209, may be used in this product~~ if shall meet all the requirements in Sections 3, 5, 6, and 9 ~~are met by the recycle material.~~

Section 6, Physical Properties: Removed the color requirements for the sheeting as follows:

~~*6.3 The sheeting shall be colored as agreed upon between the purchaser and the seller as part of the purchase contract.*~~

~~*6.4 6.3 The sheeting shall be monolithic and homogeneous.*~~

Section 7, Dimensions: Excluded the length and width from the dimension requirements for the sheeting as follows:

~~*7.1 The actual width and length of the sheeting shall be as agreed upon between the purchaser and the seller.*~~

~~*7.1.1 Sheeting width tolerance shall be +0.5, -0.0 in. (+12.7, -0.0 mm).*~~

~~*7.1.2 The length of the sheeting after unrolling and relaxing for 10 min at 73-6-3.6°F (23-6-2°C) shall be no less than that specified in the purchase order.*~~

~~*7.2 7.1 Minimum thickness of Grade 30 sheeting shall be 0.03 in. (0.765 mm) and minimum thickness of Grade 40 sheeting shall be 0.04 in. (1.02 mm).*~~

Section 11, Test Methods:

11.1 Thickness—Test five specimens obtained from locations equidistant across the width of the sheet in accordance with Method C of Test Methods D374/D374M. Report thickness of each specimen and location in sheet.



Section 13, Inspection: Removed the Inspection Requirements from the Standard as follows:

~~*13.1 Inspection of the material shall be made as agreed upon between the purchaser and the seller as part of the purchase contract.*~~

Mandatory Annex A1, Microorganism Resistance Test:

Annex A1.2.1, Apparatus: Changed the allowable variation in interior temperature from ± 3.6 °F to ± 4 °F as follows:

A1.2.1.1 Autoclave, capable of maintaining an interior temperature of 251 ± 3.6 °F (122 ± 2 °C) at a pressure of 15.5 ± 0.5 lb psig (107 ± 3.5 kPa) for the purpose of sterilizing glassware and the medium.