Summary of Substantive Changes
between the 2015 and 2017 editions of
ASTM D4068, Chlorinated Polyethylene (CPE) Sheeting for Concealed
Water-Containment Membrane

Presented to the IAPMO Standards Review Committee on June 12, 2017

General: The changes to this standard will likely have an impact on currently listed products. The significant changes are:

- Increased the requirement for average Shore-A hardness from 76 to 84 (see Section 5.1)
- Removed the requirement to conduct tensile tests in the transverse direction (see Sections 14.1, 14.2 and 14.9.1.2 and Table 1)
- Revised the production code marking requirement to remove specific location and expected longevity (see Section 16.1.5)
- Removed the requirement to conduct the bonded seam shear strength test in the transverse direction (see Table 3)

Section 5 Physical Requirements: Increased the requirement for average Shore-A hardness from 76 to 84 as follows:

5.1 The sheeting shall have an average Shore-A hardness of 76 ± 6.84 ± 6 points when ten specimens taken equidistantly across the width of the sheet are tested in accordance with Test Method D2240, using a Type A durometer and reading durometer hardness after 5 s of presser foot contact with the specimen.

14. Test Methods: Removed the requirement to conduct tensile tests in the transverse direction as follows:

14.1 Stress-Strain Properties—Tensile strength, tensile stress at 100 % elongation (modulus), and ultimate elongation shall be determined in accordance with Method A of Test Methods D412 using dumbbell cut specimens (Die C). Report the average of six specimens in transverse direction.

14.2 Tear Resistance—Determine average value from ten acceptable specimens in transverse direction tested in accordance with Test Methods D1004.

... 14.9.1.2 Test a minimum of six specimens in accordance with Method A of Test Methods D412, measuring tensile strength as shear bond. Report the average of the shear values in transverse direction as a percentage of the average tensile strength.

16. Product Marking: Revised the production code marking requirement to remove specific location and expected longevity as follows:

16.1 Material complying with this specification shall be continuously marked and shall include the following, spaced out at intervals of not more than 2 ft (0.61 m):
... 

16.1.5 A production code. This code shall be included inside the core of all shipping units, secured so as to be reasonably expected to remain with the sheeting to its end use point.

Table 1, Mechanical Properties: Removed the requirement to conduct the tensile strength and tensile stress tests in the transverse direction.

Table 3, Bonded Seam Requirements: Removed the requirement to conduct the bonded seam shear strength test in the transverse direction.