



**Summary of Substantive Changes
between the 2016a and the 2018a editions of
ASTM D2513 “Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings”**

Presented to the IAPMO Standards Review Committee on April 20, 2020

General: The change to this standard should not have an impact on currently listed products. The significant change is:

- Revised language throughout the Standard to clarify the scope (see Sections 1.1, 6.1, 7.6, Appendix X1.1.1, and Note 2)

Section 1, Scope:

1.1 This specification covers requirements and test methods for material dimensions and tolerances, hydrostatic burst strength, chemical resistance, and rapid crack resistance of polyethylene pipe, tubing, and fittings for use in fuel gas ~~mains and services~~ pipelines for direct burial and reliner applications. The pipe and fittings covered by this specification are intended for use in the transmission and distribution of natural gas. Requirements for the qualifying of polyethylene systems for use with liquefied petroleum gas are also covered.

Section 4, Materials:

NOTE 2—References and material descriptions for PE 2306, PE 2406, PE 2606, PE 3306, PE 3406, PE 3408, PE 3608, PE 3710, and PE 4608 have been removed from D2513. Elimination of these materials does not affect the pipelines that are in service. They can still be used for gas transmission or distribution. The main reason for removing these materials from this standard is to reflect the current state of the art in PE ~~gas distribution~~ piping specified for applications within the scope of this specification.

Section 6, Test Methods:

6.1 General—The test methods in this specification cover plastic pipe and fittings to be used for gas transmission and distribution. Test methods that are applicable from other specifications will be referenced in the paragraph pertaining to that particular test.

Section 7, Marking:

*7.6 All PE pipe, tubing, and fusion fittings meeting the requirements of this specification shall be marked with the 16-character gas ~~distribution~~ pipeline component tracking and traceability identifier in accordance with Specification **F2897**. The 16-character code shall be expressed in alphanumeric format and Code 128 bar code format with a minimum bar thickness value of 0.005 in. or an alternative 1D or 2D bar code symbology as agreed upon between manufacturer and end user. All fittings shall have the 16-character codes marked or affixed to the product, product packaging, or any manner agreed upon between manufacturer and end user.*



Appendix X1, Design Considerations:

X1.1 General

X1.1.1 The design of a PE piping system for natural gas service must include consideration of the combined effects of time, internal and external stress, and environment as an overall basis for selecting a specific kind and size of PE pipe. The design stress for PE pipe used for [transmission or](#) distribution of natural gas and petroleum fuels is regulated by the U.S. Department of Transportation as published in OPS 49 CFR Part 192 of the Code of Federal Regulations.