
Presented to the IAPMO Standards Review Committee on February 13, 2012

**General:** There are technical differences between the two standards that might affect products currently listed to IGC 210. The major changes in ASTM F2618 are:

- decreased the allowable out-of-roundness for NPS-1-1/4, NPS-1-1/2, NPS-2, and NPS-3 pipe and spigot ends;
- allowable dimensions and tolerances for fittings and sockets are now specified;
- additional markings are required for fittings, pipe, and solvent cement;
- the test for water absorption was removed; and
- the IGC 210 section defining the average minimum diameters of waterways of fittings and Table 3 “Average Waterway Diameter, in. (mm)” were removed.

Section 2, Referenced Documents: Changed this section as follows:

- ASTM D 570 Water Absorption of Plastics
- D2321 Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
- F402 Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings

Section 5, General Requirements for Solvent Cement: Clarified the requirements as follows:

Section 5.1: The solvent cement shall meet the general requirements of standard F493 and be classified as **heavy-bodied**, having a minimum viscosity of **1600 cP (1600 MPa-s)**.

Section 5.2: The cement shall not contain any inorganic fillers.

Section 6, Dimensions and Tolerances:

Section 6.1: Included ASTM F2135 as an alternate conformance standard to ASTM D3311 for patterns, dimensions and laying lengths of molding fittings.

Section 6.1.1: Revised this section as follows: *The outside diameter and wall thickness of pipe when measured in accordance with ASTM D 2122 shall meet the requirements of Table 1 and Table 2 when measured at any point within 1.5 pipe diameters or 11.8 in. (300 mm), whichever is less, to the cut end of the pipe length.*
Section 6.1.2: Changed the requirements and standardized the allowable socket dimensions as follows: *Socket ends of fittings shall conform to the dimensional requirements for size and tolerances as provided on request by the manufacturer. Fitting sockets shall conform to the dimensional requirements as specified in Table 3.*

Table 1: Changed the allowable out-of-roundness from 0.05, 0.06, and 0.07 for NPS-1-1/4, NPS-1-1/2, and NPS-2, respectively, to 0.024, and from 0.080 to 0.030 for NPS-3.

Table 3: Replaced the IGC 210 Table 3 “Average Waterway Diameter, in. (mm)” with a new table for “Dimensions and Tolerances for Fitting Sockets, in. (mm)”

Section 8, Test Methods:
Section 8.1, Conditioning
Section 8.1.1: Clarified the conditioning requirements for routine quality control testing.

Section 9, Product Marking:
Section 9.2, Fittings: *All fittings shall be light grey in color and have the following permanent and legible markings visible on the body or hub:*
Section 9.3 Pipe: *Schedule designation of “Sch 40”*
Section 9.3.1.3: *If listed, the seal or mark of the laboratory making the evaluation for corrosive waste application*
Section 9.3.1.5: *This ASTM standard designation (F2618)*
Section 9.3.1.6: *Pipe shall be light gray in color with EITHER a yellow stripe OR marked with a yellow print line and a continuous “chemical waste drainage” print line that is 180° removed.*
Section 9.4, Solvent Cement:
Section 9.4.4: *Instructions for use,*
Section 9.4.5: *If listed, the seal or mark of the laboratory making the evaluation, and*
Section 9.4.6: *Identification of the lot number (on the label or on the can).*