

ADS PolyFlex[®] Potable Water Service Pipe (CTS PE4710)

ADS PolyFlex potable water service pipe (CTS) is a leader in today's potable water service market. Its flexibility and durability distinguish it from the competition and make it ideal for a variety of application.

ADS PolyFlex CTS pipe is strong and resistant to many common causes of damage such as vibrations, surface loads and pressure surges.

Applications

- Residential & commercial water service pipe
- Municipal service lines
- Well/pump water systems
- Farm & ranch water systems

Features

- Material conforms to ASTM D3350 requirements
- Certified to meet NSF/ANSI 14/61 standard
- Durable plastic material stands the test of time
- Flexibility makes it ideal for a variety of projects
- Strength withstands weather and the human element
- Incremental footage markets printed every 2 feet throughout each coil length
- Light weight
- Chemically resistant
- Consistent outside diameter regardless of wall thickness or pressure rating

Benefits

- Resistant to rot or corrosion
- Fast and easy to install
- Easy installation provides cost efficiency
- Flexible lengths can be installed in uneven terrain
- Available in a variety of lengths



ADS PolyFlex Potable Water Service Tubing (CTS) Pipe Specification

Scope

This specification describes ADS PolyFlex Potable Water Service Tubing (CTS) pipe SDR 9 for use in potable water service applications.

Pipe Requirements

ADS potable water service tubing shall meet the requirements of ASTM D2737, AWWA C901 and NSF/ANSI Standards 14 and 61. Pipe dimensions shall meet Copper Tubing Size (CTS) standards.

Material Properties

Tubing material shall be high-density polyethylene conforming to the minimum requirements of cell classification 445574C CC3 or 445574E CC3 as defined and described in ASTM D3350. The resin shall have a material designation code of PE4710 by the Plastic Pipe Institute.

Disinfection/Maintenance

The active chlorine content of disinfecting solutions shall not exceed 12%. All disinfecting solution must be flushed from all lines within the system. Industry accepted procedures, like ANSI/AWWA C651 *Disinfecting Water Mains*, should be followed for both new and repaired potable water lines.

Installation

Installation is similar to other flexible tubing/pipe products. Methods including direct bury, plowing or pulling are applicable per local, state or federal guidelines for the application.

Pipe properties

| Nominal Diameter in (mm) | ¾" (19) | 1" (25) | 1¼" (32) | 1½" (38) | 2" (50) |
|-----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Outside diameter in (mm) | 0.875 ±0.004 (22.2 ±0.10) | 1.125 ±0.005 (28.6 ±0.13) | 1.375 ±0.005 (34.9 ±0.13) | 1.625 ±0.006 (41.3 ±0.15) | 2.125 ±0.006 (54.0 ±0.51) |
| Wall Thickness in (mm) | 0.097 +0.010 (2.5 +0.25) | 0.125 +0.012 (3.2 +0.30) | 0.153 +0.015 (3.9 +0.38) | 0.181 +0.018 (4.6 +0.46) | 0.236 +0.024 (6.0 +0.61) |
| Pressure rating @ 73° F psi (kPa) | 250 (1724) | 250 (1724) | 250 (1724) | 250 (1724) | 250 (1724) |
| Weight gm/ft (gm/m) | 46 ±2 (151 ±7) | 78 ±3 (256 ±10) | 125 ±4 (410 ±13) | 162 ±4 (531 ±13) | 275 ±5 (902 ±16) |

Build America, Buy America (BABA)

ADS PolyFlex CTS Pipe, manufactured in accordance with ASTM D2737, complies with the requirements in the Build America, Buy America (BABA) Act.

