

# ADS PolyFlex® Reclaimed IPS & CTS Pressure Pipe (PE4710)

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ADS Reclaimed IPS & CTS Pressure Pipe is distinguished from its competition based on its flexibility and durability, which makes it ideal for a variety of applications.

ADS Reclaimed Pressure Pipe is strong and resistant to many common causes of damage such as vibrations, surface loads and pressure surges.

## Applications

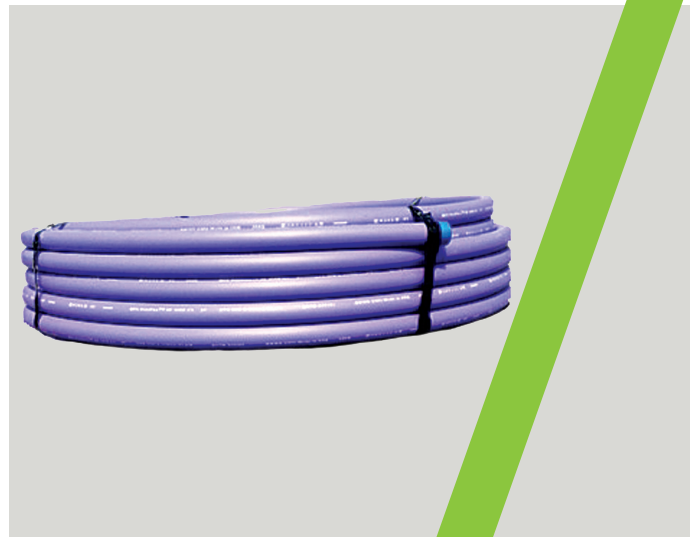
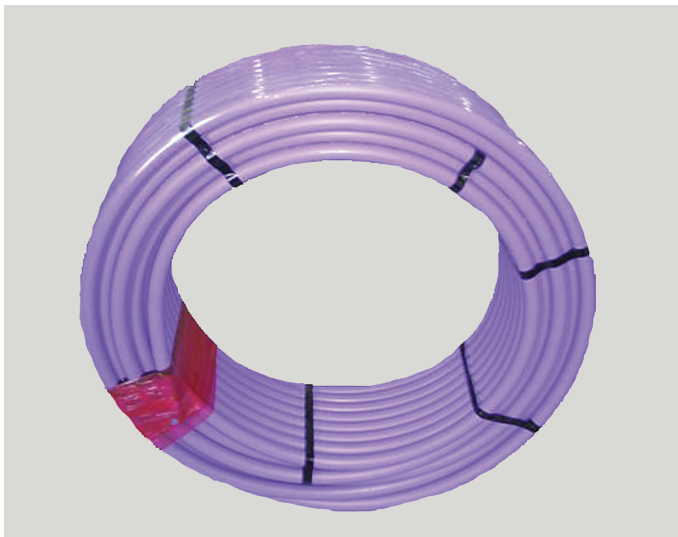
- Landscape & agricultural irrigation systems
- Reclaimed water transmission
- Residential/commercial non-potable water service pipe
- Slurry pipelines

## Features

- Lavender color for easy identification
- 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 marks printed every 2 feet throughout each coil length
- Light weight
- Chemically resistant

## 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 Reclaimed IPS & CTS Pressure Pipe Specification

## Scope

This specification describes ADS Reclaimed Water Service Pipe (IPS) SDR 7 and Reclaimed Water Service Tubing (CTS) Pipe SDR 9 for use in reclaimed water service applications.

## Pipe Requirements

ADS reclaimed water service pipe shall meet the requirements of ASTM D2239 (IPS) and ASTM D2737 (CTS) and AWWA C901. Pipe dimensions shall meet ID controlled Iron Pipe Size (IPS) and Copper Tubing Size (CTS) standards. ADS reclaimed water service pipe shall be lavender in color.

## Material Properties

Pipe 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 reclaimed 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

### Reclaimed Water Service Pipe (IPS)

| SDR 7 Nominal Diameter in (mm)    | ½" (13)                     | ¾" (19)                      | 1" (25)                     | 1¼" (32)                    | 1½" (38)                    | 2" (50)                     |
|-----------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Outside diameter in (mm)          | 0.622 ±0.01<br>(15.8 ±0.25) | 0.824 ±0.015<br>(20.9 ±0.38) | 1.049 ±0.02<br>(26.6 ±0.51) | 1.380 ±0.02<br>(35.1 ±0.51) | 1.610 ±0.02<br>(40.9 ±0.51) | 2.067 ±0.02<br>(52.5 ±0.51) |
| Wall Thickness in (mm)            | 0.089 ±0.02<br>(2.3 ±0.51)  | 0.118 ±0.02<br>(3.0 ±0.51)   | 0.150 ±0.02<br>(3.8 ±0.51)  | 0.197 ±0.02<br>(5.0 ±0.51)  | 0.230 ±0.03<br>(5.8 ±0.71)  | 0.295 ±0.035<br>(7.5 ±0.89) |
| Pressure rating @ 73° F psi (kPa) | 250 (1724)                  | 250 (1724)                   | 250 (1724)                  | 250 (1724)                  | 250 (1724)                  | 250 (1724)                  |
| Weight gm/ft (gm/m)               | 38 ±2<br>(125 ±7)           | 71 ±2<br>(233 ±7)            | 116 ±3<br>(381 ±10)         | 210 ±5<br>(689 ±16)         | 227 ±5<br>(745 ±16)         | 440 ±8<br>(1443 ±26)        |

### Reclaimed Water Service Tubing (CTS)

| SDR 9 Nominal Diameter in (mm)    | ¾" (19)                      | 1" (25)                      | 1¼" (32)                     | 1½" (38)                     | 2" (50)                      |
|-----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Outside diameter in (mm)          | 0.875 ±0.004<br>(22.2 ±0.10) | 1.125 ±0.005<br>(28.6 ±0.13) | 1.375 ±0.005<br>(34.9 ±0.13) | 1.625 ±0.006<br>(41.3 ±0.15) | 2.125 ±0.006<br>(54.0 ±0.51) |
| Wall Thickness in (mm)            | 0.097 ±0.010<br>(2.5 ±0.25)  | 0.125 ±0.012<br>(3.2 ±0.30)  | 0.153 ±0.015<br>(3.9 ±0.38)  | 0.181 ±0.018<br>(4.6 ±0.46)  | 0.236 ±0.024<br>(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<br>(151 ±7)            | 78 ±3<br>(256 ±10)           | 125 ±4<br>(410 ±13)          | 162 ±4<br>(531 ±13)          | 275 ±5<br>(902 ±16)          |

## Build America, Buy America (BABA)

ADS PolyFlex Reclaim Pipe, manufactured in accordance with ASTM D2239 and ASTM D2737, complies with the requirements in the Build America, Buy America (BABA) Act.

