

ADS PolyFlex® Standard Grade Water Service Pipe (SIDR IPS PE4710)

ADS PolyFlex Standard Grade Water Service Pipe is a leader in today's non-potable water service markets. Its flexibility and durability distinguish it from the competition and make it ideal for a variety of applications.

ADS Standard Grade Water Service Pipe is strong and resistant to many common causes of damage such as vibrations, surface loads and pressure surges.

Applications

- Landscape & agricultural irrigation systems
- Non-potable water systems
- Slurry pipelines

Features

- Produced with virgin PE 4710 material
- 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 markers printed every 2' (0.6 m) throughout each coil length
- Light weight for easy handling
- 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 Standard Grade Water Service Pipe (SIDR IPS) Specification

Scope

This specification describes ADS PolyFlex Standard Grade Water Service Pipe (IPS) SIDR 19, SIDR 15 and SIDR 11.5 for use in potable* water service applications.

Pipe Requirements

ADS potable* water service pipe shall meet the requirements of ASTM D2239. Certified to meet NSF/ANSI 14/61 standard. Pipe dimensions shall meet Iron Pipe Size (SIDR IPS) standards.

Material Properties

Pipe material shall be high-density polyethylene conforming to the minimum requirements of cell classification 445574C or 445574E as defined and described in ASTM D3350, except that carbon black content should not exceed 3.0%. The resin shall have a material designation code of PE4710 by the Plastic Pipe Institute.

Installation

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

Pipe properties

SIDR 19 Nominal Diameter in (mm)	½" (13)	¾" (19)	1" (25)	1¼" (32)	1½" (38)	2" (50)
Inside diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.073 +0.02 (1.9 +0.51)	0.085 +0.02 (2.2 +0.51)	0.109 +0.02 (2.8 +0.51)
Pressure rating @ 73° F psi (kPa)	100 (689)	100 (689)	100 (689)	100 (689)	100 (689)	100 (689)
Weight gm/ft (gm/m)	28 ±2 (92 ±7)	38 ±2 (125 ±7)	47 ±2 (154 ±7)	80 ±3 (262 ±10)	96 ±3 (315 ±10)	190 ±5 (623 ±16)

SIDR 15 Nominal Diameter in (mm)	½" (13)	¾" (19)	1" (25)	1¼" (32)	1½" (38)	2" (50)
Inside diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.070 +0.02 (1.8 +0.51)	0.092 +0.02 (2.3 +0.51)	0.107 +0.02 (2.7 +0.51)	0.138 +0.02 (3.5 +0.51)
Pressure rating @ 73° F psi (kPa)	125 (862)	125 (862)	125 (862)	125 (862)	125 (862)	125 (862)
Weight gm/ft (gm/m)	30 ±2 (98 ±7)	39 ±2 (128 ±7)	56 ±2 (184 ±7)	97 ±3 (318 ±10)	129 ±3 (423 ±10)	200 ±5 (656 ±16)

SIDR 11.5 Nominal Diameter in (mm)	½" (13)	¾" (19)	1" (25)	1¼" (32)	1½" (38)	2" (50)
Inside diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.072 +0.02 (1.8 +0.51)	0.091 +0.02 (2.3 +0.51)	0.120 +0.02 (3.0 +0.51)	0.140 +0.02 (3.6 +0.51)	0.180 +0.02 (4.6 +0.51)
Pressure rating @ 73° F psi (kPa)	160 (1103)	160 (1103)	160 (1103)	160 (1103)	160 (1103)	160 (1103)
Weight gm/ft (gm/m)	30 ±2 (98 ±7)	50 ±2 (164 ±7)	72 ±2 (236 ±7)	125 ±3 (410 ±10)	146 ±3 (479 ±10)	248 ±5 (814 ±16)

*Additional SIDRs may be available. Contact an ADS Representative for regional availability.

Build America, Buy America (BABA)

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

