

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 this application.

Pipe Properties

SIDR 19*

	½" (13 mm)	¾" (19 mm)	1" (25 mm)	1 ¼" (32 mm)	1 ½" (38 mm)	2" (50 mm)
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*

	½" (13 mm)	¾" (19 mm)	1" (25 mm)	1 ¼" (32 mm)	1 ½" (38 mm)	2" (50 mm)
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*

	½" (13 mm)	¾" (19 mm)	1" (25 mm)	1 ¼" (32 mm)	1 ½" (38 mm)	2" (50 mm)
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)

Build America, Buy America (BABA)

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

*NSF Qualification Note: With the SIDR products listed, these pipe sizes are not certified for use in potable water applications containing oxidizing disinfectants and shall not be marked with any CC oxidation resistance classifications.