

ADS POTABLE WATER SERVICE PIPE (SIDR-IPS) PIPE SPECIFICATION

Scope

This specification describes ADS PolyFlex Potable Water Service Pipe (SIDR-IPS) SIDR 9 and SIDR 7 for use in potable water service applications.

Pipe Requirements

ADS potable water service pipe shall meet the requirements of ASTM D2239 and NSF/ANSI Standards 14 and 61. 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 CC3 or 445574E CC3 as defined and described in ASTM D3350, except that carbon black content should not exceed 3%. 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 pipe products. Methods including direct bury, plowing or pulling are applicable per local, state or federal guidelines for this application.

Pipe Properties

SIDR 9

	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)	0.069 ±0.02 (1.8 ±0.51)	0.092 ±0.02 (2.3 ±0.51)	0.117 ±0.02 (3.0 ±0.51)	0.153 ±0.02 (3.9 ±0.51)	0.179 ±0.02 (4.5 ±0.51)	0.230 ±0.028 (5.8 ±0.71)
Pressure Rating @ 73°F psi (kPa)	200 (1379)	200 (1379)	200 (1379)	200 (1379)	200 (1379)	200 (1379)
Weight gm/ft (gm/m)	32 ±2 (105 ±7)	53 ±2 (174 ±7)	88 ±3 (289 ±10)	155 ±3 (509 ±10)	185 ±3 (607 ±16)	330 ±5 (1083 ±16)

SIDR 7

	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)	0.089 ±0.02 (2.3 ±0.51)	0.118 ±0.02 (3.0 ±0.51)	0.150 ±0.02 (3.8 ±0.51)	0.197 ±0.02 (5.0 ±0.51)	0.230 ±0.03 (5.8 ±0.71)	0.295 ±0.035 (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 (125 ±7)	71 ±2 (233 ±7)	116 ±3 (381 ±10)	210 ±3 (689 ±10)	227 ±5 (745 ±16)	440 ±5 (1443 ±16)

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