

# PE 4710 SIDR – POTABLE WATER PIPE

## Designed for: Water Wells, Water Service, Irrigation

- Standard Inside Dimension Ratio - HDPE
- Black Pipe



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### Specifications:

- PE 4710 Resin formulation listed in PPI TR4
- Hydrostatic Design Basis: 1600 psi @ 73 ° F, 1000 psi @ 140 ° F
- Cell Classification per ASTM D3350 = 445574C and 445576C CC3
- ASTM D2239: SIDR 7, 9, 11.5, 15, 19
- ANSI/AWWA C901-17: SIDR 7 Only.
- NSF/ANSI Standards: 14 and 61.

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### Pressure Ratings:

All pressure ratings are a maximum PSI @ 73.4°F.  
If temperatures exceed 80°F, contact Charter Plastics for a working pressure de-rating.

### Joining:

Charter Plastics Black SIDR pipe is made to ASTM D2239 Standards for inside diameter controlled pipe. It should be joined with barbed insert fittings and clamps. Double clamping is recommended on 1-1/2" and 2" pipe in all pressures and on all PC 200 or greater pipes.

You may also use special OD Compression fittings that are designed for ASTM D2239 pipe sizes. Charter Plastics recommends roughing the end of the pipe with sandpaper prior to sliding on the fitting.

Never use any lubricant on the pipe. Do not expose the pipe to direct flame.

### Installing:

All Charter Plastics SIDR Black Potable Water Pipe can be used for down the well applications. For underground installations, the pipe can be direct buried, plowed or pulled. Buried pipe must be supported by proper embedment material like sand or gravel. Refer to PPI's "Handbook of Polyethylene Pipe" and follow as local, state or federal guidelines.

To safely handle and store polyethylene, refer to PPI's Material Handling Guide.

**\*This pipe is not designed for use inside the building or for hot water applications.**

### Disinfection:

New water mains and service lines should be disinfected according to AWWA C651. The disinfection should take place after the initial flushing and pressure testing. Prolonged exposure or concentrated levels of disinfection chemicals may cause damage to the inside diameter of the pipe. The disinfection chemicals should never contain more than 12% active chlorine. Charter Plastics recommends the test duration not exceed 24 hours and that upon completion, the system be thoroughly flushed with fresh water.

### Testing:

All pipe should be hydrostatically tested after installation.  
**Pneumatic testing is not recommended.**  
Refer to PPI's Handbook of Polyethylene Pipe for Guidelines.



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SIDR PRESSURE RATINGS	SIZE	I.D.	MINIMUM WALL	WEIGHT PER FT
100 PSI SIDR 19	1"	1.049	.060	.102
125 PSI SIDR 15	.75"	.824	.060	.082
	1"	1.049	.070	.118
	1.25"	1.380	.092	.198
	1.50"	1.610	.107	.264
	2"	2.067	.138	.429
160 PSI SIDR 11.5	.50"	.622	.060	.063
	.75"	.824	.072	.097
	1"	1.049	.091	.152
	1.25"	1.380	.120	.257
	1.50"	1.610	.140	.345
	2"	2.067	.180	.564
200 PSI SIDR 9	.75"	.824	.092	.123
	1"	1.049	.117	.195
	1.25"	1.380	.153	.329
	1.50"	1.610	.179	.445
	2"	2.067	.230	.737
PC 250 SIDR 7	.75"	.824	.118	.159
	1"	1.049	.150	.253
	1.25"	1.380	.197	.434
	1.50"	1.610	.230	.591
	2"	2.067	.295	.972

ANSI/AWWA C901-17  
SIDR 7 Only

Weight calculations per PPI TR7

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**Charter Plastics**

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