

# PE 4710 CTS – POTABLE WATER TUBING

## Designed for: Water Service

- Copper Tube Size - HDPE
- Blue Ice® – Blue shell with natural core



### 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 = 445574E and 445576E
- Chlorine Resistance: CC 3 per ASTM F2263
- ASTM D2737, AWWAANSI C901
- NSF/ANSI Standards: 14 and 61

### Pressure Ratings:

ANSI/AWWA C901: CTS SDR 9, PC 250 @ 80° F

ASTM D2737: CTS SDR 9, 250 PSI @ 73°

### Joining:

Charter Plastics Blue Ice CTS tubing is made to ASTM D2737 Standards for outside diameter controlled pipe. Heat fusion may be used for joining this pipe but has limited tooling availability. All personnel conducting heat fusion should be experienced and follow guidelines published by the pipe manufacturer or by PPI in TR33.

CTS may also be joined with Stab Fittings and OD Mechanical fittings designed for pipe made to ASTM D2737 Standards. A stiffener should be inserted when using OD Compression type fittings.

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

### Installing:

All Charter Plastics CTS tubing 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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Polyethylene. Pipe. Partners.



Pipe for a New World.

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CTS PRESSURE CLASS	SIZE	O.D.	MINIMUM WALL	WEIGHT PER FT
PC 250 SDR 9	.75"	.875	.097	.103
	1"	1.125	.125	.170
	1.25"	1.375	.153	.255
	1.50"	1.625	.181	.356
	2"	2.125	.236	.609

Weight calculations per PPITR7

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