

► **PE 4710 CTS Dimensions**  
**Copper Tube Size HDPE**

05/12

**Designed for pressure applications**  
*Water, Reclaimed Water, Sewer*

**ASTM D 2737**  
**AWWA C901**

Pressure Class	SIZE	O.D.	Minimum Wall	Weight Per Foot
PC 250 DR 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 are based on PPI TR7  
 Available in straight lengths, coils or mileage reels



► **PE 4710 CTS – POTABLE WATER TUBING**  
**BLUE ICE® - Natural core with blue shell**

**Resin:**

**PE 4710 Resin formulation** - These materials also meet the requirements for a PE 3408 as per ASTM D3350-02a

**Specifications:**

NSF Standard 14 and Standard 61

ANSI/AWWA C901 CTS DR 9, PC 250@ 80°F. (27° C)

ASTM D2737 – CTS DR 9, 250 PSI @ 73°F. (23° C)

Cell Classification per ASTM D 3350 – 445574E and 445576 E

**HDB Ratings/PPI TR4:**

HDB is established @ 73.4°F. (23° C) and 140°F. (60° C) per ASTM D2837

1600 psi @ 73.4°F. Hydrostatic Design Basis (HDB)

1008 psi @ 73.4°F. Hydrostatic Design Stress (HDS) – PE 4710 utilizes .63 design factor for water

**Joining:**

Charter Plastics 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 availability in sizes.. 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 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 in house use or for hot water applications.

**Safe Handling:**

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

**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 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.

