

► **PE 4710 IPS – POTABLE WATER PIPE**  
**Iron Pipe Size HDPE**  
**Black**

4/06

*Designed for Water Distribution*

**SPECIFICATIONS:**

PE **4710** Resins listed in PPI TR4  
1600 psi Hydrostatic Design Basis  
1000 psi Hydrostatic Design Stress/ PE 4710 utilizes a .63 design factor

NSF Standard 14 and Standard 61

3" – 24" pipe: , ASTM F714

\*AWWA Standards do not currently reflect PE 4710 resins. Work is currently underway to add PE 4710 to the standards.

Cell Classification per ASTM D3350 = 445474C

**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.  
Pressure ratings based on a safety design factor of .63 Contact Charter Plastics if fluids other than water will be conveyed.

**Joining:**

Charter Plastics IPS pipe is based on outside diameter. Heat fusion is the preferred method for joining this pipe. All personnel conducting heat fusions should be experienced and follow guidelines published by the pipe manufacturer or by PPI in TR 33. It may also be joined with OD Mechanical fittings designed for pipe made to D 3035/F 714 Standards. A stiffener should be inserted when using OD Compression type fittings on pipe  $\leq 2"$ .  
Never use any lubricant on the pipe. Do not expose the pipe to direct flame.

**Installing:**

All Charter IPS pipe can be direct buried and can be installed with a vibrating plow, pulled or horizontally directionally drilled. 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.

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.

