

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

12/06

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 include them in 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.

Joining:

Charter Plastics DIPS 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. DIPS may also be joined with OD Mechanical fittings designed for pipe made to F714 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 DIPS 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.

