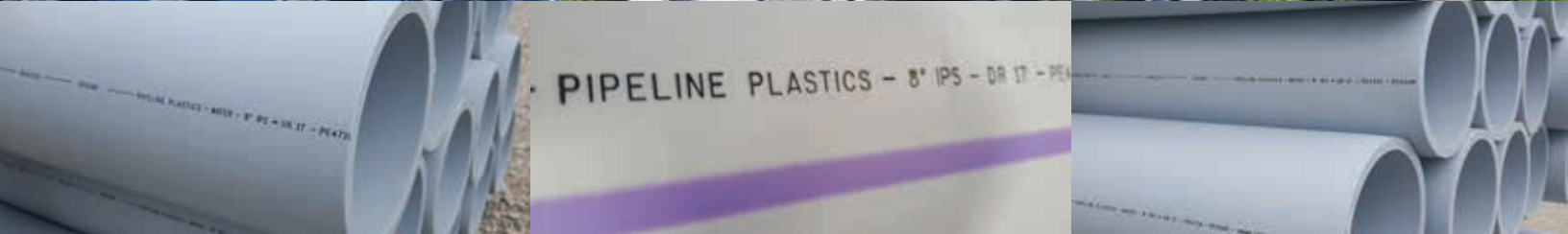




**PIPELINE**<sup>®</sup>  
PLASTICS

# GRAY PIPE PE4710



## APPLICATIONS

---

Pipeline Plastics PE4710 Gray Pipe is a solid gray pipe, not gray lined, produced from a high performance bimodal, high density polyethylene (HDPE) pipe designed for raw water transmission, gravity and force sewer mains, or storm water. Our PE4710 Gray Pipe's heat fused joints provide a leak free system which is corrosion and seismic resistant. It is available in IPS and DIPS sizes. Striping is available upon request.

Corporate Headquarters  
1301 Solana Blvd., Bldg. 1 Suite 1440, Westlake, TX 76262  
O: 817-693-4100 F: 817-693-4101

## CONFORMANCE

- ASTM F714, “Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter.”
- ANSI/AWWA C906, “Polyethylene Pressure Pipe and Fittings, 4” through 65”, for Water Works.”
- Cell Classification PE445574E per ASTM D3350
- Plastics Pipe Institute (PPI) TR-4 Listing as PE4710 / PE3408
- Hydrostatic Design Basis 1,600 psi @ 73°F (23°C) and 1,000 psi @ 140°F (60°C) per ASTM D2837
- Heat Fusion Joining as per ASTM F2620 and PPI TR-33/TR-41.
- Installation as per AWWA M55 and PPI PE Pipe Handbook, 2nd ed.

Physical Properties	Nominal Value*	Test Method	Physical Properties	Nominal Value*	Test Method
Density	0.960 g/cm <sup>3</sup>	ASTM D1505	Elongation @ Break	>500 %	ASTM D638
Melt Index (MI) 190°C/2.16kg	0.07 g/10 min	ASTM D1238	Flexural Modulus	150,000 psi	ASTM D790
High Load Melt Index (190°C/21.6kg)	7 - 16 g/10 min	ASTM D1238	Brittleness Temperature	<-103 °F	ASTM D746
PENT	>500 hours	ASTM F1473	Hardness	62 Shore D	ASTM D2240
Tensile Stress @ Yield	3,500 psi	ASTM D638	Vicat Softening Temperature	256 °F	ASTM D1525
Tensile Stress @ Break	5,000 psi	ASTM D638	Thermal Expansion	1.0 x 10 <sup>-4</sup> in/in/°F	ASTM D696

\* Nominal values are typical results and are not guaranteed or intended to be used as a product specification or engineering values.

IPS	DR	17			19			21		
	PR <sup>A</sup> /PC <sup>B</sup>	125			110			100		
Size	OD (in)	Min Wall (in)	ID <sup>C</sup> (in)	Lb / Ft <sup>D</sup>	Min Wall (in)	ID <sup>C</sup> (in)	Lb / Ft <sup>D</sup>	Min Wall (in)	ID <sup>C</sup> (in)	Lb / Ft <sup>D</sup>
6"	6.625	0.390	5.799	3.354	0.349	5.886	3.026	0.315	5.956	2.747
8"	8.625	0.507	7.549	5.689	0.454	7.663	5.122	0.411	7.754	4.658
10"	10.75	0.632	9.409	8.830	0.566	9.551	7.963	0.512	9.665	7.247
12"	12.75	0.750	11.16	12.43	0.671	11.33	11.19	0.607	11.46	10.19
14"	14.00	0.824	12.25	14.98	0.737	12.44	13.50	0.667	12.59	12.29
16"	16.00	0.941	14.00	19.58	0.842	14.21	17.64	0.762	14.38	16.05

DIPS	DR	17			19			21		
	PR <sup>A</sup> /PC <sup>B</sup>	125			110			100		
Size	OD (in)	Min Wall (in)	ID <sup>C</sup> (in)	Lb / Ft <sup>D</sup>	Min Wall (in)	ID <sup>C</sup> (in)	Lb / Ft <sup>D</sup>	Min Wall (in)	ID <sup>C</sup> (in)	Lb / Ft <sup>D</sup>
6"	6.90	0.986	4.810	8.000	0.767	5.275	6.470	0.627	5.570	5.421
8"	9.05	1.293	6.309	13.76	1.006	6.918	11.13	0.823	7.306	9.32
10"	11.10	1.586	7.738	20.70	1.233	8.485	16.74	1.009	8.961	14.03
12"	13.20	1.886	9.202	29.28	1.467	10.09	23.68	1.200	10.66	19.84
14"	15.30	2.186	10.67	39.33	1.700	11.70	31.80	1.391	12.35	26.65

Note - These tables represent standard sizes. Other DRs and PCs available upon request.

A. PR: Pressure Rating in pounds/sq. in. (psi) for ASTM F714 Water up to 80°F.

B. PC: Pressure Class in pounds/sq. in. (psi) for ANSI / AWWA C906 Water up to 80°F.

C. ID: Inside Diameter may vary due to manufacturing tolerances.

D. Wt / Ft: Weight per foot in pounds may vary due to manufacturing tolerances.