



WZHETON (*wuh-je-tone*)

Means build something in the Potawatomi language.

APPLICATIONS

Industrial Pipe is PE 4710 performance high-density polyethylene (HDPE) pipe designed for general industrial applications. It is intended for new construction and insertion renewal of old piping systems used to transport municipal sewage, domestic sewage, industrial process liquids, effluents, slurries, etc., in both pressure and non-pressure systems. It is NOT intended for potable water applications.

CONFORMANCE

- ASTM F714, "Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR Based on Outside Diameter.)"
- Cell Classification PE445574C per ASTM D3350
- Color & UV Stabilizer: (C) Black with 2% min Carbon Black per ASTM D3350
- 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.
- Leak testing should be performed according to ASTM F2164, "Standard Practice for Field Leak Testing of Polyethylene (PE) and Crosslinked Polyethylene (PEX) Pressure Piping Systems Using Hydrostatic Pressure." Appropriate safety considerations should always be followed.

IPS		PR ^A / PC ^B	335	250	200	160	125	100
Size	OD (in)	DR	7	9	11	13.5	17	21
4"	4.5	Min Wall (in)	0.643	0.500	0.409	0.333	0.265	0.214
		ID ^C (in)	3.137	3.440	3.633	3.793	3.939	4.046
		Lb / Ft ^D	3.402	2.751	2.307	1.914	1.548	1.268
6"	6.625	Min Wall (in)	0.946	0.736	0.602	0.491	0.390	0.315
		ID ^C (in)	4.619	5.065	5.348	5.585	5.799	5.956
		Lb / Ft ^D	7.373	5.961	4.994	4.151	3.354	2.747
8"	8.625	Min Wall (in)	1.232	0.958	0.784	0.639	0.507	0.411
		ID ^C (in)	6.013	6.594	6.960	7.270	7.550	7.750
		Lb / Ft ^D	12.498	10.108	8.468	7.035	5.689	4.658
10"	10.75	Min Wall (in)	1.536	1.194	0.977	0.796	0.632	0.512
		ID ^C (in)	7.494	8.219	8.680	9.060	9.410	9.660
		Lb / Ft ^D	19.417	15.699	13.158	10.931	8.834	7.247
12"	12.75	Min Wall (in)	1.821	1.417	1.159	0.944	0.750	0.607
		ID ^C (in)	8.889	9.746	10.290	10.750	11.160	11.460
		Lb / Ft ^D	27.315	22.089	18.513	15.377	12.427	10.193
14"	14	Min Wall (in)	2.000	1.556	1.273	1.037	0.824	0.667
		ID ^C (in)	9.760	10.701	11.300	11.800	12.250	12.590
		Lb / Ft ^D	32.930	26.629	22.314	18.538	14.984	12.288
16"	16	Min Wall (in)	2.286	1.778	1.455	1.185	0.941	0.762
		ID ^C (in)	11.154	12.231	12.920	13.490	14.000	14.380
		Lb / Ft ^D	43.012	34.772	29.149	24.213	19.576	16.042
18"	18	Min Wall (in)	2.571	2.000	1.636	1.333	1.059	0.857
		ID ^C (in)	12.549	13.760	14.530	15.170	15.760	16.180
		Lb / Ft ^D	54.435	44.017	36.897	30.644	24.767	20.313
20"	20	Min Wall (in)	2.857	2.222	1.818	1.481	1.176	0.952
		ID ^C (in)	13.943	15.289	16.150	16.860	17.510	17.980
		Lb / Ft ^D	67.211	54.351	45.535	37.832	30.575	25.077
22"	22	Min Wall (in)	3.143	2.444	2.000	1.630	1.294	1.048
		ID ^C (in)	15.337	16.819	17.760	18.550	19.260	19.780
		Lb / Ft ^D	81.308	65.752	55.105	45.777	37.004	30.318
24"	24	Min Wall (in)	3.429	2.667	2.182	1.778	1.412	1.143
		ID ^C (in)	16.731	18.346	19.370	20.230	21.010	21.580
		Lb / Ft ^D	96.767	78.261	65.586	54.478	44.018	36.083
26"	26	Min Wall (in)		2.889	2.364	1.926	1.529	1.238
		ID ^C (in)		19.875	20.990	21.920	22.760	23.380
		Lb / Ft ^D		91.832	76.952	63.936	51.675	42.362
28"	28	Min Wall (in)		3.111	2.545	2.074	1.647	1.333
		ID ^C (in)		21.405	22.600	23.600	24.510	25.170
		Lb / Ft ^D		106.517	89.255	74.182	59.934	49.119
30"	30	Min Wall (in)		3.333	2.727	2.222	1.765	1.429
		ID ^C (in)		22.934	24.220	25.290	26.260	26.970
		Lb / Ft ^D		122.260	102.470	85.155	68.812	56.389
32"	32	Min Wall (in)			2.909	2.370	1.882	1.524
		ID ^C (in)			25.830	26.970	28.010	28.770
		Lb / Ft ^D			116.597	96.885	78.266	64.169
34"	34	Min Wall (in)			3.091	2.519	2.000	1.619
		ID ^C (in)			27.450	28.660	29.760	30.570
		Lb / Ft ^D			131.600	109.372	88.370	72.430
36"	36	Min Wall (in)			3.273	2.667	2.118	1.714
		ID ^C (in)			29.060	30.350	31.510	32.370
		Lb / Ft ^D			147.549	122.616	99.081	81.208
42"	42	Min Wall (in)			3.818	3.111	2.471	2.000
		ID ^C (in)			33.910	35.400	36.760	37.760
		Lb / Ft ^D			200.836	166.886	134.852	110.542
48"	48	Min Wall (in)				3.556	2.824	2.286
		ID ^C (in)				40.460	42.010	43.150
		Lb / Ft ^D				217.960	176.126	144.389

Physical Properties	Nominal Value*	Test Method
Density	0.960 g/cm ³	ASTM D1505
Melt Index (MI) 190°C/2.16kg	0.07 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6kg)	7-16 g/10 min	ASTM D1238
SCG Resistance (PENT)	>500 hours	ASTM F1473
Tensile Stress @ Yield	3,500 psi	ASTM D638
Tensile Stress @ Break	5,000 psi	ASTM D638

Physical Properties	Nominal Value*	Test Method
Elongation @ Break	>500 %	ASTM D638
Flexural Modulus (2% secant)	150,000 psi	ASTM D790
Brittleness Temperature	< -103°F	ASTM D746
Hardness	62 Shore D	ASTM D2240
Vicat Softening Temperature	256°F	ASTM D1525
Thermal Expansion	1.0 x 10 ⁻⁴ in/in/°F	ASTM D696

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. ID: Inside Diameter may vary due to manufacturing tolerances.
- C. Wt / Ft: Weight per foot in pounds may vary due to manufacturing tolerances.

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