

**Materials**

The material requirements for PE pressure pipe shall meet or exceed ASTM Standard D 3350 requirements. PE pressure pipe is suitable for such uses as oil and gas piping systems, industrial & mining, sewer & landfill.

**PE3408/3608 Typical Physical Properties**  
\*nominal values

Property	Typical Value	Units	Test Method
Density with minimum 2% carbon black	.955	g/cc	ASTM D 792 or 1505
High Load Melt Index	8.75	g/10 minutes	ASTM D 1238
Flexural Modulus	140.000	Psi	ASTM D 790
Tensile Strength @ yield (2 in/min)	3500	Psi	ASTM D 638
Tensile Strength @ Break (2 in/min)	5000	Psi	ASTM D 638
Elongation @ Break (2 in/min)	>800%	%	ASTM D 638
ESCR Condition C (100% Igepal F50)	>5000	Hours (condition C)	ASTM D 1693
HDB 73.4°F (23°C)	1600	Psi	ASTM D 2837
HDB 140°F (60°C)	800	Psi	ASTM D 2837
Hardness	66	Shore D	ASTM D 2240
Brittleness Temperature	<-103°F (-75°C)	°F	ASTM D 746
Cell Classification	345464C (black only)		ASTM D 3350

\*Nominal values are to be used as guidelines only; this is not a product specification  
And does not indicate minimum or maximum values



# Pittsburgh Pipe

THE RIGHT PIPE • RIGHT ON TIME

IPS Size	Avg. OD	SDR PSI	7 335	7.3 320	9 250	11 200	13.5 160	15.5 139	17 130	19 110	21 100	26 80	32.5 65
3/4	1.05	Min Wall	0.150	-	0.117	0.095	0.078	-	-	-	-	-	-
		Avg. ID	0.732	-	0.802	0.849	0.885	-	-	-	-	-	-
		Weight p/ft	0.180	-	0.150	0.120	0.100	-	-	-	-	-	-
1	1.315	Min Wall	0.188	0.180	0.146	0.120	0.097	-	-	-	-	-	-
		Avg. ID	0.916	0.933	1.005	1.061	1.109	-	-	-	-	-	-
		Weight p/ft	0.288	0.278	0.230	0.200	0.160	-	-	-	-	-	-
1 1/4	1.66	Min Wall	0.237	0.227	0.184	0.151	0.123	0.107	0.107	-	-	-	-
		Avg. ID	0.157	1.178	1.292	1.358	1.414	1.446	1.465	-	-	-	-
		Weight p/ft	0.459	0.442	0.370	0.310	0.250	0.224	0.206	-	-	-	-
1 1/2	1.90	Min Wall	0.271	0.260	0.211	0.173	0.141	0.123	0.112	-	-	-	-
		Avg. ID	1.325	1.348	1.478	1.554	1.618	1.654	1.676	-	-	-	-
		Weight p/ft	0.600	0.580	0.480	0.400	0.330	0.295	0.270	-	-	-	-
2	2.375	Min Wall	0.339	0.325	0.264	0.213	0.176	0.153	0.140	0.125	0.113	-	-
		Avg. ID	1.656	1.685	1.815	1.917	2.002	2.069	2.078	2.110	2.135	-	-
		Weight p/ft	0.939	0.906	0.760	0.640	0.530	0.458	0.430	0.390	0.350	-	-
2 1/2	2.875	Min Wall	0.411	0.394	0.319	0.262	0.213	0.213	0.169	-	-	-	-
		Avg. ID	2.004	2.040	2.198	2.351	2.449	2.424	2.516	-	-	-	-
		Weight p/ft	1.377	1.329	1.109	0.930	0.764	0.771	0.622	-	-	-	-
3	3.50	Min Wall	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.184	0.167	0.135	0.1076
		Avg. ID	2.440	2.484	2.675	2.826	2.951	3.048	3.063	3.110	3.146	3.214	3.285
		Weight p/ft	2.040	1.968	1.660	1.390	1.150	0.997	0.932	0.840	0.770	0.630	0.494
4	4.50	Min Wall	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.237	0.214	0.173	0.138
		Avg. ID	3.137	3.193	3.440	3.633	3.794	3.920	3.938	3.998	4.046	4.133	4.207
		Weight p/ft	3.372	3.253	2.740	2.290	1.900	1.645	1.514	1.390	1.260	1.030	0.830



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5	5.563	Min Wall	0.795	0.762	0.618	0.506	0.412	0.359	0.327	0.293	0.265	0.214	0.171
		Avg. ID	3.878	3.947	4.253	4.490	4.690	4.844	4.870	4.942	5.001	5.109	5.200
		Weight p/ft	5.170	4.975	4.180	3.510	2.910	2.517	2.352	2.120	1.930	1.570	1.270
6	6.625	Min Wall	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.349	0.315	0.255	0.204
		Avg. ID	4.619	4.701	5.065	5.349	5.584	5.771	5.798	5.885	5.957	6.084	6.193
		Weight p/ft	7.330	7.059	5.930	4.970	4.130	3.566	3.340	3.010	2.730	2.230	1.781
7	7.125	Min Wall	-	-	-	-	-	-	0.419	0.375	0.339	0.274	0.219
		Avg. ID	-	-	-	-	-	-	6.236	6.330	6.406	6.544	6.660
		Weight p/ft	-	-	-	-	-	-	3.821	3.442	3.128	2.553	2.057
8	8.625	Min Wall	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.454	0.411	0.332	0.265
		Avg. ID	6.013	6.120	6.593	6.963	7.271	7.445	7.549	7.663	7.754	7.922	8.062
		Weight p/ft	12.385	11.963	9.988	8.359	6.939	6.100	5.597	5.044	4.591	3.744	3.012
10	10.75	Min Wall	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.566	0.512	0.413	0.331
		Avg. ID	7.494	7.628	8.218	8.678	9.062	9.280	9.409	9.551	9.665	9.873	10.049
		Weight p/ft	19.245	18.581	15.515	12.983	10.774	9.490	8.695	7.838	7.128	5.805	4.689
12	12.75	Min Wall	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.671	0.607	0.490	0.392
		Avg. ID	8.889	9.047	9.747	10.293	10.748	11.006	11.160	11.327	11.463	11.710	11.918
		Weight p/ft	27.062	26.138	21.837	18.267	15.155	13.348	12.238	11.021	10.023	8.169	6.587
14	14.00	Min Wall	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.737	0.667	0.538	0.431
		Avg. ID	9.760	9.934	10.702	11.302	11.801	12.085	12.254	12.438	12.587	12.858	13.087
		Weight p/ft	32.635	31.511	26.329	22.030	18.279	16.082	14.763	13.292	12.093	9.848	7.952
16	16.00	Min Wall	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.842	0.762	0.615	0.492
		Avg. ID	11.154	11.353	12.231	12.916	13.487	13.812	14.005	14.215	14.385	14.695	14.956
		Weight p/ft	42.629	41.157	34.384	28.777	23.872	21.005	19.269	17.355	15.789	12.866	10.375



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4	4.80	Min Wall	0.686	0.533	0.436	0.356	0.282	0.229	0.185	0.148
		Avg. ID	3.346	3.670	3.876	4.045	4.202	4.315	4.408	4.487
		Weight p/ft	3.87	3.13	2.62	2.18	1.76	1.44	1.18	0.95
6	6.90	Min Wall	0.986	0.767	0.627	0.511	0.406	0.329	0.265	0.212
		Avg. ID	4.810	5.274	5.571	5.817	6.039	6.203	6.338	6.450
		Weight p/ft	8.00	6.47	5.42	4.50	3.64	2.98	2.43	1.96
8	9.05	Min Wall	1.293	1.006	0.823	0.670	0.532	0.431	0.348	0.278
		Avg. ID	6.309	6.917	7.305	7.630	7.922	8.136	8.312	8.460
		Weight p/ft	13.76	11.13	9.32	7.75	6.26	5.13	4.19	3.38
10	11.10	Min Wall	1.586	1.233	1.009	0.822	0.653	0.529	0.427	0.342
		Avg. ID	7.738	8.486	8.961	9.357	9.716	9.970	10.195	10.376
		Weight p/ft	20.70	16.74	14.03	11.66	9.42	7.72	6.30	5.08
12	13.20	Min Wall	1.886	1.467	1.200	0.978	0.776	0.629	0.508	0.405
		Avg. ID	9.202	10.090	10.656	11.127	11.555	11.867	12.123	12.339
		Weight p/ft	29.27	23.67	19.84	16.48	13.32	10.92	8.91	7.19
14	15.30	Min Wall	2.186	1.700	1.391	1.133	0.900	0.729	0.588	0.471
		Avg. ID	10.666	11.696	12.351	12.898	13.392	13.755	14.053	14.302
		Weight p/ft	39.33	31.80	26.65	22.15	17.89	14.67	11.97	9.66
16	17.40	Min Wall	2.486	1.933	1.582	1.289	1.024	0.829	0.669	0.535
		Avg. ID	12.130	13.302	14.046	14.667	15.229	15.643	15.982	16.265
		Weight p/ft	50.87	41.13	34.47	28.64	23.14	18.97	15.48	12.49

**Pressure Pipe is manufactured to the following standards: ASTM D3035, AWWA C901/C906, F714, D2513, NSF 61**