WL PLASTICS
An INEOS Business

WL102
IPS Pipe Sizes & Pressure Class



Multi-application use

The ideal piping solution

WL102 IPS Pipe Sizes & Pressure Class

Contact WL Plastics customer service to confirm the availability of sizes shown, and for PCs and DRs not shown.
See table footnotes for additional information.

PE4710/ PE100		PC[B], psi	335	320	250	200	160	140	125	100	80	65
IPS size[A]	Avg. OD (in)	DR	7	7.3	9	11	13.5	15.5	17	21	26	32.5
3/4	1.050	Min wall, in	0.150	0.144	0.117	0.095						
		Avg ID[C], in	0.732	0.745	0.803	0.848						
		Weight, lb/ft	0.184	0.177	0.148	0.124						
1	1.315	Min wall, in	0.188	0.180	0.146	0.120						
		Avg ID[C], in	0.917	0.933	1.005	1.062						
		Weight, lb/ft	0.288	0.278	0.232	0.195						
1 1/4	1.660	Min wall, in	0.237	0.227	0.184	0.151	0.123					
		Avg ID[C], in	1.157	1.178	1.269	1.340	1.399					
		Weight, lb/ft	0.459	0.442	0.369	0.310	0.257					
1 1/2	1.900	Min wall, in	0.271	0.260	0.211	0.173	0.141					
		Avg ID[C], in	1.325	1.348	1.452	1.534	1.602					
		Weight, lb/ft	0.600	0.580	0.485	0.406	0.337					
2	2.375	Min wall, in	0.339	0.325	0.264	0.216	0.176	0.153	0.140			
		Avg ID[C], in	1.656	1.685	1.816	1.917	2.002	2.050	2.079			
		Weight, lb/ft	0.939	0.906	0.758	0.634	0.526	0.462	0.425			
3	3.500	Min wall, in	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.167		
		Avg ID[C], in	2.440	2.484	2.676	2.825	2.950	3.021	3.064	3.147		
		Weight, lb/ft	2.040	1.968	1.646	1.376	1.141	1.006	0.923	0.757		
4	4.500	Min wall, in	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.214	0.173	0.138
		Avg ID[C], in	3.137	3.193	3.440	3.633	3.793	3.885	3.939	4.046	4.133	4.206
		Weight, lb/ft	3.372	3.253	2.720	2.275	1.887	1.660	1.526	1.247	1.018	0.819
6	6.625	Min wall, in	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.315	0.255	0.204
		Avg ID[C], in	4.619	4.701	5.064	5.348	5.585	5.719	5.799	5.956	6.085	6.193
		Weight, lb/ft	7.305	7.059	5.894	4.930	4.095	3.599	3.307	2.703	2.209	1.781
8	8.625	Min wall, in	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.411	0.332	0.265
		Avg ID[C], in	6.013	6.120	6.593	6.963	7.271	7.445	7.549	7.754	7.922	8.062
		Weight, lb/ft	12.385	11.963	9.988	8.359	6.939	6.100	5.597	4.591	3.744	3.012
10	10.750	Min wall, in	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.512	0.413	0.331
		Avg ID[C], in	7.494	7.628	8.218	8.678	9.062	9.280	9.409	9.665	9.873	10.049
		Weight, lb/ft	19.245	18.581	15.515	12.983	10.774	9.490	8.695	7.128	5.805	4.689
12	12.750	Min wall, in	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.607	0.490	0.392
		Avg ID[C], in	8.889	9.047	9.747	10.293	10.748	11.006	11.160	11.463	11.710	11.918
		Weight, lb/ft	27.062	26.138	21.837	18.267	15.155	13.348	12.238	10.023	8.169	6.587
14	14.000	Min wall, in	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.667	0.538	0.431
		Avg ID[C], in	9.760	9.934	10.702	11.302	11.801	12.085	12.254	12.587	12.858	13.087
		Weight, lb/ft	32.635	31.511	26.329	22.030	18.279	16.082	14.763	12.093	9.848	7.952
16	16.000	Min wall, in	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.762	0.615	0.492
		Avg ID[C], in	11.154	11.353	12.231	12.916	13.487	13.812	14.005	14.385	14.695	14.956
		Weight, lb/ft	42.629	41.157	34.384	28.777	23.872	21.005	19.269	15.789	12.866	10.375
18	18	Min wall, in	2.571	2.466	2	1.636	1.333	1.161	1.059	0.857	0.692	0.554
		Avg ID[C], in	12.549	12.773	13.76	14.531	15.173	15.538	15.755	16.183	16.532	16.826
		Weight, lb/ft	53.94	52.089	43.513	36.403	30.21	26.584	24.395	19.977	16.286	13.142

PE4710/ PE100		PC[B], psi	335	320	250	200	160	140	125	100	80	65
IPS size[A]	Avg. OD (in)	DR	7	7.3	9	11	13.5	15.5	17	21	26	32.5
20	20	Min wall, in	2.857	2.74	2.222	1.818	1.481	1.29	1.176	0.952	0.769	0.615
		Avg ID[C], in	13.943	14.192	15.289	16.145	16.859	17.265	17.506	17.981	18.369	18.695
		Weight, lb/ft	66.599	64.307	53.715	44.947	37.294	32.82	30.102	24.658	20.109	16.211
22	22	Min wall, in	3.143	3.014	2.444	2	1.63	1.419	1.294	1.048	0.846	0.677
		Avg ID[C], in	15.337	15.611	16.818	17.76	18.545	18.991	19.256	19.779	20.206	20.565
		Weight, lb/ft	80.591	77.812	64.991	54.391	45.149	39.712	36.433	29.858	24.335	19.629
24	24	Min wall, in	3.429	3.288	2.667	2.182	1.778	1.548	1.412	1.143	0.923	0.738
		Avg ID[C], in	16.731	17.03	18.347	19.375	20.231	20.717	21.007	21.577	22.043	22.434
		Weight, lb/ft	95.916	92.603	77.365	64.735	53.726	47.26	43.369	35.525	28.963	23.344
26	26	Min wall, in	3.714	3.562	2.889	2.364	1.926	1.677	1.529	1.238	1	0.8
		Avg ID[C], in	18.126	18.449	19.876	20.989	21.917	22.444	22.758	23.375	23.88	24.304
		Weight, lb/ft	114.714	110.769	92.535	77.44	64.261	56.532	51.856	42.486	34.648	27.94
28	28	Min wall, in	4.000	3.836	3.111	2.545	2.074	1.806	1.647	1.333	1.077	0.862
		Avg ID[C], in	19.520	19.868	21.404	22.604	23.603	24.17	24.508	25.173	25.717	26.174
		Weight, lb/ft	133.49	128.466	107.312	89.785	74.522	65.563	60.154	49.266	40.187	32.421
30	30	Min wall, in	4.286		3.333	2.727	2.222	1.935	1.765	1.429	1.154	0.923
		Avg ID[C], in	20.914		22.933	24.218	25.289	25.897	26.259	26.971	27.554	28.043
		Weight, lb/ft	152.744		123.183	103.076	85.543	75.264	69.068	56.585	46.135	37.196
32	32	Min wall, in			3.556	2.909	2.37	2.065	1.882	1.524	1.231	0.985
		Avg ID[C], in			24.462	25.833	26.975	27.623	28.009	28.77	29.391	29.913
		Weight, lb/ft			140.183	117.285	97.324	85.672	78.557	64.37	52.494	42.34
34	34	Min wall, in			3.778	3.091	2.519	2.194	2	1.619	1.308	1.046
		Avg ID[C], in			25.991	27.447	28.661	29.35	29.76	30.568	31.228	31.782
		Weight, lb/ft			158.244	132.411	109.905	96.714	88.7	72.657	59.264	47.773
36	36	Min wall, in			4.000	3.273	2.667	2.323	2.118	1.714	1.385	1.108
		Avg ID[C], in			27.52	29.062	30.347	31.076	31.511	32.366	33.065	33.652
		Weight, lb/ft			177.399	148.454	123.208	108.424	99.457	81.446	66.444	53.581
42	42	Min wall, in				3.818	3.111	2.71	2.471	2	1.615	1.292
		Avg ID[C], in				33.906	35.404	36.255	36.762	37.76	38.575	39.26
		Weight, lb/ft				202.039	167.675	147.568	135.372	110.874	90.393	72.893
48	48	Min wall, in					3.556	3.097	2.824	2.286	1.846	1.477
		Avg ID[C], in					40.461	41.435	42.014	43.154	44.086	44.869
		Weight, lb/ft					219.036	192.774	176.813	144.833	118.082	95.233
54	54	Min wall, in						3.484	3.176	2.571	2.077	1.662
		Avg ID[C], in						46.614	47.266	48.549	49.597	50.478
		Weight, lb/ft						243.921	223.713	183.253	149.464	120.556

Contact WL Plastics plant customer service to confirm availability and for sizes and DRs not shown.

A. Sizes per ASTM D3035 and ASTM F714. See WL116 Pipe Standards.

B. See WL130 for FM Sizes and Ratings. Pressure class (PC) for water at 73°F. Ratings will vary for other fluids and temperatures. See WL118 Pressure Rating for more information.

C. Calculated Avg ID = Avg OD – (2.12 x min wall), and is for estimating fluid flow. Pipe ID is approximate, not a specification dimension.

D. All dimensions in inches.

E. NSF-61 Certification for potable water service available upon request.

F. See WL101 for fusion, mechanical and electrofusion joining information.

G. The information in this publication does not constitute a guarantee or warranty for piping installations and cannot be guaranteed because the conditions of use are beyond WL Plastics control. See WL125 Terms and Conditions of Sale.

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Manufacturing locations

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Cedar City, UT
Elizabethtown, KY
Lubbock, TX (HDPE)
Lubbock, TX (MDPE)
Rapid City, SD
Snyder, TX
Statesboro, GA
Titusville, PA (HDPE/MDPE)

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