

TABLAS DIMENSIONALES TUBERÍA DE POLIETILENO

ALTA DENSIDAD (HDPE/PEAD)



CALPLAST
ESPECIALISTA EN TUBERÍA DE POLIETILENO

DIMENSIONES DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)

Diámetro Nominal pulgadas	Diámetro Nominal milímetros	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
		46 PSI	58 PSI	72 PSI	87 PSI	116 PSI	145 PSI	181 PSI	232 PSI	290 PSI	362 PSI
	16								2.0	2.3	3.0
	20							2.0	2.3	3.0	3.4
3/4	25						2.0	2.3	3.0	3.5	4.2
1	32					2.0	2.4	3.0	3.6	4.4	5.4
1 ¼	40				2.0	2.4	3.0	3.7	4.5	5.5	6.7
1 ½	50			2.0	2.4	3.0	3.7	4.6	5.6	6.9	8.3
2	63			2.5	3.0	3.8	4.7	5.8	7.1	8.6	10.5
2 ½	75			2.9	3.6	4.5	5.6	6.8	8.4	10.3	12.5
3	90			3.5	4.3	5.4	6.7	8.2	10.1	12.3	15.0
4	110			4.2	5.3	6.6	8.1	10.0	12.3	15.1	18.3
5	125			4.8	6.0	7.4	9.2	11.4	14.0	17.1	20.8
5 ½	140			5.4	6.7	8.3	10.3	12.7	15.7	19.2	23.3
6	160			6.2	7.7	9.5	11.8	14.6	17.9	21.9	26.6
7	180			6.9	8.6	10.7	13.3	16.4	20.1	24.6	29.9
8	200			7.7	9.6	11.9	14.7	18.2	22.4	27.4	33.2
9	225			8.6	10.8	13.4	16.6	20.5	25.2	30.8	37.4
10	250			9.6	11.9	14.8	18.4	22.7	27.9	34.2	41.5
11	280			10.7	13.4	16.6	20.6	25.4	31.3	38.3	46.5
12	315	7.7	9.7	12.1	15.0	18.7	23.2	28.6	35.2	43.1	52.3
14	355	8.7	10.9	13.6	16.9	21.1	26.1	32.2	39.7	48.5	59.0
16	400	9.8	12.3	15.3	19.1	23.7	29.4	36.3	44.7	54.7	
18	450	11.0	13.8	17.2	21.5	26.7	33.1	40.9	50.3	61.5	
20	500	12.3	15.3	19.1	23.9	29.7	36.8	45.4	55.8		
22	560	13.7	17.2	21.4	26.7	33.2	41.2	50.8	62.5		
24	630	15.4	19.3	24.1	30.0	37.4	46.3	57.2	70.3		
28	710	17.4	21.8	27.2	33.9	42.1	52.2	64.5	79.3		

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

PN: Presión Nominal, se basa en C = 1.25; corresponde a la máxima presión de operación admisible, en bar, a 20 °C. Los valores actuales calculados son 6.3 bar para PE80.

DIMENSIONES DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)

Diámetro Nominal pulgadas	Diámetro Nominal milímetros	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
		58 PSI	72 PSI	87 PSI	116 PSI	145 PSI	181 PSI	232 PSI	290 PSI	362 PSI
	16								2.0	2.3
	20							2.0	2.3	3.0
3/4	25						2.0	2.3	3.0	3.5
1	32					2.0	2.4	3.0	3.6	4.4
1 ¼	40				2.0	2.4	3.0	3.7	4.5	5.5
1 ½	50			2.0	2.4	3.0	3.7	4.6	5.6	6.9
2	63			2.5	3.0	3.8	4.7	5.8	7.1	8.6
2 ½	75			2.9	3.6	4.5	5.6	6.8	8.4	10.3
3	90			3.5	4.3	5.4	6.7	8.2	10.1	12.3
4	110			4.2	5.3	6.6	8.1	10.0	12.3	15.1
5	125			4.8	6.0	7.4	9.2	11.4	14.0	17.1
5 ½	140			5.4	6.7	8.3	10.3	12.7	15.7	19.2
6	160			6.2	7.7	9.5	11.8	14.6	17.9	21.9
7	180			6.9	8.6	10.7	13.3	16.4	20.1	24.6
8	200			7.7	9.6	11.9	14.7	18.2	22.4	27.4
9	225			8.6	10.8	13.4	16.6	20.5	25.2	30.8
10	250			9.6	11.9	14.8	18.4	22.7	27.9	34.2
11	280			10.7	13.4	16.6	20.6	25.4	31.3	38.3
12	315	7.7	9.7	12.1	15.0	18.7	23.2	28.6	35.2	43.1
14	355	8.7	10.9	13.6	16.9	21.1	26.1	32.2	39.7	48.5
16	400	9.8	12.3	15.3	19.1	23.7	29.4	36.3	44.7	54.7
18	450	11.0	13.8	17.2	21.5	26.7	33.1	40.9	50.3	61.5
20	500	12.3	15.3	19.1	23.9	29.7	36.8	45.4	55.8	
22	560	13.7	17.2	21.4	26.7	33.2	41.2	50.8	62.5	
24	630	15.4	19.3	24.1	30.0	37.4	46.3	57.2	70.3	
28	710	17.4	21.8	27.2	33.9	42.1	52.2	64.5	79.3	

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

PN: Presión Nominal, se basa en C = 1.25; corresponde a la máxima presión de operación admisible, en bar, a 20 °C. Los valores actuales calculados son 6.3 bar para PE100.

DIMENSIONES DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)

DN pulgadas	DN milímetros	SDR 7.3	SDR 8.3	SDR 9	SDR 9.3	SDR 11	SDR 13.5	SDR 15.5	SDR 17	SDR 21	SDR 26	SDR 32.5	SDR 41
		254 PSI	220 PSI	200 PSI	193 PSI	160 PSI	130 PSI	110 PSI	100 PSI	80 PSI	65 PSI	50 PSI	40 PSI
Espesor nominal en milímetros													
3	88.9	12.167	10.719	9.881	9.550	8.077	6.579	5.740	5.232	4.242	3.429	2.743	2.159
4	114.3	15.646	13.767	12.700	12.294	10.389	8.458	7.366	6.731	5.436	4.394	3.505	2.794
5	136.5	18.694	16.459	15.164	14.681	12.421	10.109	8.814	8.026	6.502	5.258	4.191	3.327
5½	141.3	19.355	17.018	15.697	15.189	12.852	10.465	9.119	8.306	6.731	5.436	4.343	3.454
6	168.3	23.063	20.269	18.694	18.085	15.291	12.471	10.846	9.906	8.001	6.477	5.182	4.115
7	181.0	24.790	21.793	20.117	19.456	16.459	13.411	11.684	10.668	8.636	6.960	5.563	4.420
8	219.1	30.023	26.391	24.333	23.546	19.914	16.231	14.122	12.878	10.439	8.433	6.731	5.334
10	273.1	37.414	32.893	30.328	29.362	24.816	20.218	17.628	16.053	13.005	10.490	8.407	6.655
12	323.8	44.374	39.014	35.992	34.823	29.439	23.978	20.904	19.050	15.418	12.446	9.957	7.874
13	339.7	46.533	40.919	37.744	36.525	30.886	25.171	21.920	19.990	16.180	13.056	10.465	8.280
14	355.6	48.717	42.850	39.522	38.227	32.334	26.340	22.936	20.930	16.942	13.665	10.947	8.661
16	406.4	55.677	48.971	45.161	43.688	36.957	30.099	26.213	23.901	19.355	15.621	12.497	9.906
18	457.2	62.636	55.093	50.800	49.149	41.554	33.858	29.489	26.899	21.768	17.577	14.072	11.151
20	508.0	69.596	61.189	56.439	54.635	46.177	37.617	32.766	29.870	24.181	19.533	15.621	12.395
21 ½	546.1						40.462	35.230	32.131	26.010	21.006	16.815	13.310
22	558.8			62.078	60.096	50.800	41.402	36.043	32.868	26.619	21.488	17.196	13.640
24	609.6			67.742	65.557	55.423	45.161	39.319	35.865	29.032	23.444	18.745	14.859
26	660.4				71.018	60.046	48.920	42.596	38.837	31.445	25.400	20.320	16.104
28	711.2				76.479	64.643	52.680	45.872	41.834	33.858	27.356	21.895	17.348

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

DN: Diámetro exterior nominal.

PE3608: Hace referencia a la Nota 2 de ASTM F714-10 Pag.1 y a los cambios en la especificación ASTM D3350 y PPI TR-3.

DIMENSIONES DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)

DN pulgadas	DN milímetros	SDR 7.3	SDR 9	SDR 11	SDR 13.5	SDR 17	SDR 21	SDR 26	SDR 32.5	SDR 41
		320 PSI	254 PSI	200 PSI	160 PSI	125 PSI	100 PSI	80 PSI	65 PSI	50 PSI
		Espesor nominal en milímetros								
2	60.3	8.255	6.706	5.486	4.470	3.556	2.900	2.319	1.855	1.470
3	88.9	12.167	9.881	8.077	6.579	5.232	4.242	3.429	2.743	2.159
4	114.3	15.646	12.700	10.389	8.458	6.731	5.436	4.394	3.505	2.794
5	136.5	18.694	15.164	12.421	10.109	8.026	6.502	5.258	4.191	3.327
5½	141.3	19.355	15.697	12.852	10.465	8.306	6.731	5.436	4.343	3.454
6	168.3	23.063	18.694	15.291	12.471	9.906	8.001	6.477	5.182	4.115
7	181.0	24.790	20.117	16.459	13.411	10.668	8.636	6.960	5.563	4.420
8	219.1	30.023	24.333	19.914	16.231	12.878	10.439	8.433	6.731	5.334
10	273.1	37.414	30.328	24.816	20.218	16.053	13.005	10.490	8.407	6.655
12	323.8	44.374	35.992	29.439	23.978	19.050	15.418	12.446	9.957	7.874
13	339.7	46.533	37.744	30.886	25.171	19.990	16.180	13.056	10.465	8.280
14	355.6	48.717	39.522	32.334	26.340	20.930	16.942	13.665	10.947	8.661
16	406.4	55.677	45.161	36.957	30.099	23.901	19.355	15.621	12.497	9.906
18	457.2	62.636	50.800	41.554	33.858	26.899	21.768	17.577	14.072	11.151
20	508.0	69.596	56.439	46.177	37.617	29.870	24.181	19.533	15.621	12.395
21 ½	546.1	74.803	60.655	49.657	40.462	32.131	26.010	21.006	16.815	13.310
22	558.8	76.556	62.078	50.800	41.402	32.868	26.619	21.488	17.196	13.640
24	609.6	83.515	67.742	55.423	45.161	35.865	29.032	23.444	18.745	14.859
26	660.4	90.475	73.355	60.046	48.920	38.837	31.445	25.400	20.320	16.104
28	711.2	97.434	79.019	64.643	52.680	41.834	33.858	27.356	21.895	17.348

DN: Diámetro exterior nominal.