

HDPE SMOOTH PIPES

ARG | m

MODELS
AVAILABLE FOR SALE



GENERAL DESCRIPTION

Smooth HDPE pipes produced with high-quality resin, designed for the transport of liquids and other elements under high pressure. The pipes are manufactured in accordance with ISD 4427 / DIN 8074 / ASTM F714 standards using materials such as PE 100 and PE 80. Available in nominal diameters from 25 mm to 1200 mm with a maximum length of 24 m, in the range of colors required by the market (white, blue, yellow, or others). We manufacture pipes with nominal pressure (PN) ratings ranging from 4 bar to 20 bar

ATTRIBUTES

- Withstands high pressure levels.
- High resistance to abrasion, making it suitable for use with slurries, tailings, and other abrasive materials.
- Dur smooth pipe is resistant to corrosion and most chemicals involved in mining processes.
- Flexible, allowing it to adapt to various terrains even in intricate topography.
- Absorbs vibration stress, making it excellent for river crossings, unstable ground, lakes, etc.

TECHNICAL CHARACTERISTICS OF HDPE PIPES (ISO 4427 / DIN 8074)

NOMINAL PRESSURE (BAR)															
PE100		4		6		8		10		12.5		16		20	
PE80		3.2		5		6		8		10		12.5		16	
NOMINAL DIAMETER		SDR													
		41		26		21		17		13.6		11		9	
[mm]	[in]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]
16	3/8	0.51	0.02	0.71	0.03	0.90	0.04	1.09	0.05	1.27	0.06	1.63	0.07	1.97	0.09
20	1/2	0.61	0.04	0.86	0.05	1.10	0.06	1.34	0.07	1.57	0.09	2.01	0.12	20.50	0.13
25	3/4	0.74	0.05	1.05	0.08	1.35	0.10	1.64	0.12	1.93	0.15	2.50	0.17	3.20	0.21
32	1	0.92	0.09	1.31	0.12	1.70	0.15	2.08	0.19	2.60	0.23	3.20	0.28	3.85	0.32
40	1 1/4	1.12	0.13	1.62	0.19	2.10	0.24	2.60	0.29	3.25	0.36	3.95	0.43	4.80	0.51
50	1 1/2	1.38	0.20	2.15	0.31	2.59	0.37	3.20	0.45	3.95	0.55	4.90	0.66	5.93	0.79
63	2	1.72	0.32	2.70	0.49	3.20	0.57	4.05	0.72	5.00	0.87	6.15	1.05	7.55	1.26
75	2 1/2	2.02	0.44	3.10	0.67	3.84	0.82	4.80	1.01	5.95	1.23	7.21	1.47	8.90	1.76
90	3	2.41	0.63	3.75	0.97	4.60	1.18	5.75	1.45	7.10	1.77	8.69	2.12	10.70	2.54
110	4	2.92	0.94	4.50	1.42	5.65	1.77	7.	2.16	8.60	2.62	10.55	3.15	13.00	3.78
125	5	3.30	1.20	5.10	1.83	6.33	2.25	7.83	2.75	9.75	3.37	12.03	4.08	14.80	4.89
140	5 1/2	3.69	1.51	5.75	2.32	7.09	2.82	8.80	3.46	10.90	4.22	13.42	5.09	140	6.13
160	6	4.20	1.96	6.60	3.04	8.15	3.71	10.05	4.52	12.45	5.51	15.38	6.67	16.55	7.98
180	7	4.71	2.48	7.30	3.78	9.09	4.66	11.30	5.72	14.05	6.99	17.28	8.43	18.85	10.10
200	8	5.22	3.05	8.15	4.69	10.15	5.78	12.55	7.06	15.50	8.58	19.19	10.41	21.20	12.49
225	9	5.86	3.85	9.10	5.89	11.40	7.30	14.15	8.95	17.50	10.89	21.58	13.17	23.60	15.80
250	10	6.50	4.75	10.15	7.30	12.55	8.94	15.60	10.97	19.40	13.42	23.91	16.22	26.55	19.42
280	11	7.27	5.95	11.30	9.11	14.15	11.28	17.50	13.78	21.70	16.81	26.75	20.32	29.35	24.41
315	12	8.14	7.49	12.80	11.60	15.80	14.18	19.70	17.45	24.45	21.31	30.12	25.74	32.95	30.89
355	14	9.19	9.54	14.35	14.66	17.80	18.01	22.25	22.21	27.50	27.01	33.90	32.65	37.05	39.22
400	16	10.34	12.09	16.15	18.60	20.15	22.96	24.95	28.07	30.95	34.26	38.20	41.45	41.75	49.76
450	18	11.59	15.24	18.15	23.51	22.65	29.04	28.10	35.56	34.85	43.40	43.00	52.50	47.00	63.00
500	20	13.00	18.99	20.15	29.01	25.15	35.83	31.25	43.94	38.70	53.55	47.75	64.77	52.90	77.64
560	22	14.44	23.64	22.55	36.36	28.08	44.81	34.95	55.05	43.35	67.18	53.40	81.14	58.65	97.40
630	24	16.23	29.89	25.40	46.07	31.55	56.64	39.35	69.72	48.70	84.92	60.15	102.81	65.70	123.26
710	28	18.35	38.08	28.65	58.56	35.65	72.12	44.30	88.46	54.90	107.88	67.80	130.60	73.90	156.66
800	32	20.65	48.28	32.20	74.17	40.10	91.41	49.85	112.18	61.80	136.85	76.30	165.63	83.35	198.77
900	36	23.15	60.90	36.35	94.18	45.10	115.66	56.05	141.90	69.60	173.37	85.85	209.65	93.85	
1000	40	25.80	75.40	40.20	115.75	50.15	142.90	62.35	175.37	76.20	211.16	94.80	257.39		
1200	48	30.95	108.55	48.25	166.71	60.15	205.67	71.35	241.57	92.70	307.90				



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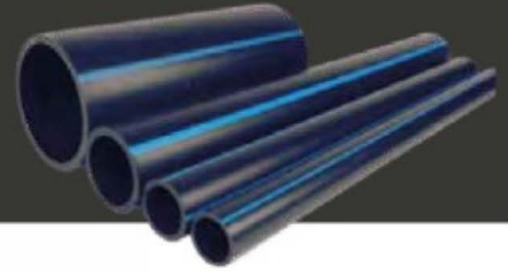
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EFFICIENCY IN PRESSURE LIQUID TRANSPORT

APPLICATIONS

- Liquid fluid transport.
- Gas transport.
- Leach pads.
- Sewage/Wastewater.
- Tailings conduction.
- Internal lining for metallic pipes.
- Sanitary installations.
- Irrigation systems.
- Fire protection networks.

TECHNICAL CHARACTERISTICS OF HDPE PIPES (ASTM F-714)

NOMINAL PRESSURE															
PE4710		50		80		100		125		160		200		250	
PE3608		40		64		80		100		128		160		200	
NOMINAL DIAMETER	EXTERNAL DIAMETER	SDR													
		41		26		21		17		13.5		11		9	
[in]	[mm]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]	THICKNESS [mm]	WEIGHT [kg/m]
3"	88.90	2.16	0.60	3.43	0.93	4.24	1.14	5.23	1.39	6.58	1.73	8.1	2.08	9.88	2.48
4"	114.30	2.79	0.99	4.39	1.54	5.44	1.88	6.73	2.30	8.46	2.86	10.4	3.43	12.70	4.10
5"	136.53	3.33	1.41	5.26	2.19	6.50	2.69	8.03	3.28	10.11	4.08	12.4	4.90	15.16	5.85
6"	168.28	4.11	2.15	6.48	3.33	8.00	4.08	9.91	4.99	12.47	6.20	15.3	7.44	18.69	8.89
7"	181.00	4.42	2.49	6.96	3.85	8.64	4.73	10.67	5.78	13.41	7.17	16.5	8.61	20.12	10.29
8"	219.08	5.33	3.63	8.43	5.65	10.44	6.93	12.88	8.44	16.23	10.49	19.9	12.61	24.33	15.07
10"	273.05	6.65	5.65	10.49	8.76	13.00	10.76	16.05	13.12	20.22	16.28	24.8	19.59	30.33	23.41
12"	323.80	7.87	7.92	12.45	12.33	15.42	15.12	19.05	18.47	23.98	22.89	29.4	27.56	35.99	32.94
13"	339.70	8.28	8.74	13.06	13.56	16.18	16.65	19.99	20.32	25.17	25.21	30.9	30.33	37.74	36.25
14"	355.60	8.66	9.57	13.67	14.86	16.94	18.25	20.93	22.28	26.34	27.62	32.3	33.24	39.52	39.73
16"	406.40	9.91	12.50	15.62	19.41	19.35	23.82	23.90	29.07	30.10	36.06	37.0	43.42	45.16	51.88
18"	457.20	11.15	15.83	17.58	24.57	21.77	30.14	26.90	36.81	33.86	45.63	41.6	54.93	50.80	65.66
20"	508.00	12.40	19.55	19.53	30.34	24.18	37.21	29.87	45.42	37.62	56.32	46.2	67.82	56.44	81.05
22"	558.80	13.64	23.67	21.49	36.72	26.62	45.05	32.87	54.97	41.40	68.18	50.8	82.07	62.08	98.06
24"	609.60	14.86	28.12	23.44	43.70	29.03	53.60	35.86	65.44	45.16	81.12	55.4	97.68	67.74	116.74
26"	660.40	16.10	33.02	25.40	51.29	31.45	62.90	38.84	76.77	48.92	95.20	60.0	114.64		
28"	711.20	17.35	38.30	27.36	59.49	33.86	72.93	41.83	89.05	52.68	110.39	64.6	132.92		
30"	762.00	18.59	43.98	29.31	68.30	36.30	83.77	44.83	102.25	56.44	126.71	69.3	152.60		
32"	812.80	19.81	49.99	31.27	77.71	38.71	95.29	47.80	116.30	60.20	144.16	73.9	173.63		
34"	863.60	21.06	56.45	33.22	87.74	41.12	107.56	50.80	131.31	63.98	162.79	78.5	196.02		
36"	914.40	22.30	63.30	35.18	98.37	43.54	120.57	53.80	147.24	67.74	182.49	83.1	219.78		
42"	1066.80	26.01	86.12	41.02	133.82	50.80	164.14	62.76	200.41						
48"	1219.20	29.74	112.55	46.89	174.81	58.06	214.41	71.73	261.76						



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