

MALAYSIA INDUSTRY STANDARD

HDPE PIPES

Our High Density Polyethylene (HDPE) pipes are designed for applications requiring high durability, pressure resistance, and long service life.

Their strength, flexibility, and resistance to corrosion make them suitable for a broad range of building and industrial systems.

Scope of applications:

- Cold water supply and distribution systems
- Pump rooms and mechanical plant rooms
- Sewage and drainage
- Sub-duct for telecommunication
- Potable water systems
- Industrial process water lines
- Compressed air and fluid transfer systems
- Utility piping within commercial and industrial buildings

HDPE systems are commonly specified where flexibility, impact resistance, and long-term performance are critical.

PE80 Suitable for standard pressure applications

PE100 Higher strength material for increased pressure performance and durability

HDPE pipes are commonly specified according to nominal pressure class (PN), with pressure ratings up to PN16 (16 bar). Hup Soon's HDPE pipes are available in sizes ranging from **20mm to 630mm**, supporting both small-scale installations and high-capacity systems.

■ Pipe Features

- Smooth internal surface, energy efficient, water and abrasion resistant
- Termite proof, inert to chemicals, UV resistant
- Weather resistance, good thermal and electrical insulation
- Tough, strong and impact resistant

PE80

- Color: Black with 4 blue stripes
- Standard MS 1058: Part 2 : 2005 | Equivalent to ISO 4427

OD (mm)	PN10		PN12.5		PN16		PN20	
	Thickness MIN(mm)	Thickness MAX(mm)	Thickness MIN(mm)	Thickness MAX(mm)	Thickness MIN(mm)	Thickness MAX(mm)	Thickness MIN(mm)	Thickness MAX(mm)
20	–	–	2.0	2.3	2.3	2.7	3.0	3.4
25	2.0	2.3	2.3	2.7	3.0	3.4	3.5	4.0
32	2.4	2.8	3.0	3.4	3.6	4.1	4.4	5.0
40	3.0	3.5	3.7	4.2	4.5	5.1	5.5	6.2
50	3.7	4.2	4.6	5.2	5.6	6.3	6.9	7.7
63	4.7	5.3	5.8	6.5	7.1	8.0	8.6	9.6
75	5.6	6.3	6.8	7.6	8.4	9.4	10.3	11.5
90	6.7	7.5	8.2	9.2	10.1	11.3	12.3	13.7
110	8.1	9.1	10.0	11.1	12.3	13.7	15.1	16.8
125	9.2	10.3	11.4	12.7	14.0	15.6	17.1	19.0
160	11.8	13.1	14.6	16.2	17.9	19.8	21.9	24.2
180	13.3	14.8	16.4	18.2	20.1	22.3	24.6	27.2
200	14.7	16.3	18.2	20.2	22.4	24.8	27.4	30.3
225	16.6	18.4	20.5	22.7	25.2	27.9	30.8	34.0
250	18.4	20.4	22.7	25.1	27.9	30.8	34.2	37.8
280	20.6	22.8	25.4	28.1	31.3	34.6	38.2	42.3
315	23.2	25.7	28.6	31.6	35.2	38.9	43.1	47.6
355	26.1	28.9	32.2	35.6	39.7	43.8	48.5	53.5
400	29.4	32.5	36.3	40.1	44.7	49.3	54.7	60.3
450	33.1	36.6	40.9	45.1	50.3	55.5	61.5	67.8
500	36.8	40.6	45.4	50.1	55.8	61.5	–	–
560	41.2	45.5	50.8	56.0	–	–	–	–
630	46.3	51.1	57.2	63.1	–	–	–	–

- Standard Length 5.8m ± 5mm



PE100

- Color: Black with 4 blue stripes
- Standard MS 1058: Part 2 : 2003 | Equivalent to ISO 4427

PN10					PN12.5		PN16		PN20	
Size	OD(mm)		Thickness		Thickness		Thickness		Thickness	
	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
16	16	16.3	—	—	—	—	—	—	2.0	2.3
20	20	20.3	—	—	—	—	2.0	2.3	2.3	2.7
25	25	25.3	—	—	2.0	2.3	2.3	2.7	3.0	3.4
32	32	32.3	2.0	2.3	2.4	2.8	3.0	3.4	3.6	4.1
40	40	40.4	2.4	2.8	3.0	3.5	3.7	4.2	4.5	5.1
50	50	50.4	3.0	3.4	3.7	4.2	4.6	5.2	5.6	6.3
63	63	63.4	3.8	4.3	4.7	5.3	5.8	6.5	7.1	8.0
75	75	75.5	4.5	5.1	5.6	6.3	6.8	7.6	8.4	9.4
90	90	90.6	5.4	6.1	6.7	7.5	8.2	9.2	10.1	11.3
110	110	110.7	6.6	7.4	8.1	9.1	10.0	11.1	12.3	13.7
125	125	125.8	7.4	8.3	9.2	10.3	11.4	12.7	14.0	15.6
160	160	161.0	9.5	10.6	11.8	13.1	14.6	16.2	17.9	19.8
180	180	181.1	10.7	11.9	13.3	14.8	16.4	18.2	20.1	22.3
200	200	201.2	11.9	13.2	14.7	16.3	18.2	20.2	22.4	24.8
225	225	226.4	13.4	14.9	16.6	18.4	20.5	22.7	25.2	27.9
250	250	251.5	14.8	16.4	18.4	20.4	22.7	25.1	27.9	30.8
280	280	281.7	16.6	18.4	20.6	22.8	25.4	28.1	31.3	34.6
315	315	316.9	18.7	20.7	23.2	25.7	28.6	31.6	35.2	38.9
355	355	357.2	21.1	23.4	26.1	28.9	32.2	35.6	39.7	43.8
400	400	402.4	23.7	26.2	29.4	32.5	36.3	40.1	44.7	49.3
450	450	452.7	26.7	29.5	33.1	36.6	40.9	45.1	50.3	55.5
500	500	503.0	29.7	32.8	36.8	40.6	45.4	50.1	55.8	61.5
560	560	563.4	33.2	36.7	41.2	45.5	50.8	56.0	62.5	68.9
630	630	633.8	37.4	41.3	46.3	51.1	57.2	63.1	70.3	77.5

- Standard Length 5.8m ± 5mm