

Wall Thickness Charts for HDPE Pipes

HDPE PIPES AS PER IS 4984 MATERIAL GRADE PE 63														
Outer Dia. (MM)	PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Wall Thickness in MM													
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.4	4
25	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.4	4	4.2	4.9
32	-	-	-	-	2.3	2.8	3	3.5	3.6	4.2	4.4	5.1	5.4	6.2
40	-	-	2	2.4	2.8	3.3	3.7	4.3	4.5	5.2	5.5	6.3	6.7	7.6
50	-	-	2.4	2.9	3.5	4.1	4.6	5.3	5.6	6.4	6.8	7.7	8.4	9.5
63	2	2.4	3	3.5	4.4	5.1	5.8	6.6	7	7.9	8.6	9.7	10.5	11.8
75	2.3	2.8	3.6	4.2	5.3	6.1	6.9	7.8	8.4	9.5	10.2	11.5	12.5	14
90	2.8	3.3	4.3	5	6.3	7.2	8.2	9.3	10	11.2	12.2	13.7	15	16.7
110	3.4	4	5.3	6.1	7.7	8.7	10	11.2	12.3	13.8	14.9	16.6	18.4	20.5
125	3.8	4.4	6	6.8	8.8	9.9	11.4	12.8	13.9	15.5	16.9	18.8	20.9	23.2
140	4.3	5	6.7	7.6	9.8	11	12.8	14.3	15.6	17.4	19	21.1	23.4	26
160	4.9	5.6	7.7	8.7	11.2	12.6	14.6	16.3	17.8	19.8	21.7	24.1	26.7	29.6
180	5.5	6.3	8.6	9.7	12.6	14.1	16.4	18.3	20	22.2	24.4	27.1	30	33.2
200	6.1	7	9.6	10.8	14	15.6	18.2	20.3	22.3	24.8	27.1	30.1	33.4	37
225	6.9	7.8	10.8	12.1	15.7	17.5	20.5	22.8	25	27.7	30.5	33.8	37.5	41.5
250	7.6	8.6	12	13.4	17.5	19.5	22.8	25.3	27.8	30.8	33.8	37.4	41.7	46.1
280	8.5	9.6	13.4	15	19.6	21.8	25.5	28.3	31.2	34.6	37.9	41.9	46.7	51.6
315	9.6	10.8	15	16.7	22	24.4	28.7	31.8	35	38.7	42.6	47.1	52.5	58
355	10.8	12.1	17	18.9	24.8	27.5	32.3	35.8	39.5	43.7	48	53	59.2	65.4
400	12.2	14.3	19.1	22.2	28	32.4	36.4	42.8	44.5	51.4	54.1	62.5	-	-
450	13.7	16	21.5	25	31.4	36.4	41.1	47.4	50	57.7	-	-	-	-
500	15.2	17.7	23.9	27.7	34.9	40.4	45.5	52.6	55.6	64.2	-	-	-	-
560	17	19.8	26.7	31	39.1	45.2	51	58.9	-	-	-	-	-	-
630	19.1	22.2	30	34.7	44	50.8	57.3	66.1	-	-	-	-	-	-
710	21.6	25.1	33.9	39.2	49.6	57.3	-	-	-	-	-	-	-	-
800	24.3	28.2	38.1	44.1	55.9	64.5	-	-	-	-	-	-	-	-
900	27.3	31.6	42.9	49.6	-	-	-	-	-	-	-	-	-	-
1000	30.4	35.2	47.7	55.1	-	-	-	-	-	-	-	-	-	-



HDPE PIPE AS PER IS 4984 MATERIAL GRADE PE 80														
Outer Dia. (MM)	PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Wall Thickness in MM													
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	-	-	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3
25	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.5	4.1
32	-	-	-	-	-	-	2.4	2.9	3	3.5	3.6	4.2	4.5	5.2
40	-	-			2.3	2.8	3	3.5	3.7	4.3	4.5	5.2	5.6	6.4
50	-	-	2.3	2.8	2.9	3.4	3.8	4.4	4.6	5.3	5.6	6.4	6.9	7.8
63	-	-	2.5	3	3.6	4.2	4.7	5.4	5.8	6.6	7	7.9	8.7	9.8
75	-	-	2.9	3.4	4.3	5	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	2.3	2.8	3.5	4.1	5.1	5.9	6.7	7.6	8.2	9.3	10	11.2	12.5	14
110	2.7	3.2	4.3	5	6.3	7.2	8.2	9.3	10	11.2	12.3	13.8	15.2	17
125	3.1	3.7	4.9	5.6	7.1	8.1	9.3	10.5	11.4	12.8	13.9	15.5	17.3	19.3
140	3.5	4.1	5.4	6.2	8	9	10.4	11.7	12.8	14.3	15.6	17.4	19.4	21.6
160	4	4.6	6.2	7.1	9.1	10.3	11.9	13.3	14.6	16.3	17.8	19.8	22.1	24.6
180	4.4	5.1	7	7.9	10.2	11.5	13.4	15	16.4	18.3	20	22.2	24.9	27.6
200	4.9	5.6	7.7	8.7	11.4	12.8	14.9	16.6	18.2	20.3	22.3	24.8	27.6	30.6
225	5.5	6.3	8.7	9.8	12.8	14.3	16.7	18.6	20.5	22.8	25	27.7	31.1	34.5
250	6.1	7	9.7	10.9	14.2	15.9	18.6	20.7	22.8	25.3	27.8	30.8	34.5	38.2
280	6.9	7.8	10.8	12.1	15.9	17.7	20.8	23.1	25.5	28.3	31.2	34.6	38.7	42.8
315	7.7	8.7	12.2	13.7	17.9	19.9	23.4	26	28.7	31.8	35	38.7	43.5	48.1
355	8.7	9.8	13.7	15.3	20.1	22.4	26.3	29.2	32.3	35.8	39.5	43.7	49	54.1
400	9.8	11.5	15.4	18	22.7	26.4	29.7	34.4	36.4	42.1	44.5	51.4	55.2	63.7
450	11	12.9	17.4	20.3	25.5	29.6	33.4	38.7	41	47.4	50	57.7	-	-
500	12.2	14.3	19.3	22.4	28.4	32.9	37.1	42.9	45.5	52.6	55.6	64.2	-	-
560	13.7	16	21.6	25.1	31.7	36.7	41.5	48	51	58.9	-	-	-	-
630	15.4	18	24.3	28.2	35.7	41.3	46.7	54	57.3	66.1	-	-	-	-
710	17.4	20.3	27.4	31.8	40.2	46.5	52.6	60.7	-	-	-	-	-	-
800	19.6	22.8	30.8	35.7	45.3	52.3	-	-	-	-	-	-	-	-
900	22	25.5	34.7	40.2	51	58.9	-	-	-	-	-	-	-	-
1000	24.4	28.3	38.5	44.5	56.7	65.5	-	-	-	-	-	-	-	-

HDPE PIPE AS PER IS 4984 MATERIAL GRADE PE 100										
Outer Dia. (MM)	PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Wall Thickness in MM									
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	-	-	-	-	-	-	-	-	2.3	2.8
25	-	-	-	-	-	-	2.3	2.8	2.9	3.4
32	-	-	-	-	2.4	2.9	2.9	3.4	3.7	4.3
40	-	-	2.4	2.9	3	3.5	3.7	4.3	4.6	5.3
50	2.3	2.8	3	3.5	3.7	4.3	4.6	5.3	5.7	6.5
63	2.9	3.4	3.8	4.4	4.7	5.4	5.7	6.5	7.1	8.1
75	3.5	4.1	4.5	5.2	5.6	6.4	6.8	7.7	8.5	9.6
90	4.1	4.8	5.4	6.2	6.7	7.6	8.2	9.3	10.2	11.5
110	5	5.7	6.6	7.5	8.1	9.2	10	11.2	12.4	13.9
125	5.7	6.5	7.5	8.5	9.2	10.4	11.3	12.7	14.1	15.8
140	6.4	7.3	8.4	9.5	10.3	11.6	12.7	14.2	15.8	17.6
160	7.3	8.3	9.6	10.8	11.8	13.2	14.5	16.2	18.1	20.2
180	8.2	9.3	10.8	12.1	13.3	14.9	16.3	18.2	20.3	22.6
200	9.1	10.3	12	13.4	14.8	16.5	18.1	20.2	22.6	25.1
225	10.3	11.6	13.5	15.1	16.6	18.5	20.4	22.7	25.4	28.2
250	11.4	12.8	15	16.7	18.4	20.5	22.6	25.1	28.2	31.3
280	12.8	14.3	16.8	18.7	20.6	22.9	25.3	28.1	31.6	35
315	14.4	16.1	18.9	21	23.2	25.8	28.5	31.6	35.5	39.3
355	16.2	18.1	21.2	23.6	26.2	29.1	32.1	35.6	40	44.2
400	18.2	21.2	23.9	27.7	29.5	34.2	36.2	41.9	45.1	52.1
450	20.5	23.8	26.9	31.2	33.1	38.3	40.7	47.7	50.8	58.7
500	22.8	26.5	29.9	34.6	36.8	42.6	45.2	52.2	56.4	65.1
560	25.5	29.6	33.5	38.8	41.2	47.6	50.6	58.4	-	-
630	28.7	33.3	37.7	43.6	46.4	53.6	56.9	65.7	-	-
710	32.3	37.4	42.4	49	52.3	60.4	-	-	-	-
800	36.4	42.1	47.8	55.2	58.9	68	-	-	-	-
900	41	47.4	53.8	62.1	-	-	-	-	-	-
1000	45.5	52.6	-	-	-	-	-	-	-	-



HDPE PIPE AS PER IS 14333 MATERIAL GRADE PE 63														
Outer Dia. (MM)	PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Wall Thickness in MM													
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
63	-	-	4	4.6	5.8	6.6	7.5	8.5	9	10.1	10.9	12.2	13.3	14.9
75	3	3.5	4.7	5.4	6.9	7.8	8.9	10	10.8	12.1	13	14.5	15.8	17.6
90	3.6	4.2	5.7	6.5	8.2	9.3	10.6	11.9	12.9	14.4	15.6	17.4	19	21.1
110	4.4	5.1	6.9	7.8	10	11.2	13	14.5	15.8	17.6	19	21.1	23.2	25.8
125	5	5.7	7.9	8.9	11.4	12.8	14.8	16.5	17.9	19.9	21.6	24	26.4	29.3
140	5.6	6.4	8.8	9.9	12.8	14.3	16.5	18.4	20	22.2	24.2	26.9	29.5	32.7
160	6.4	7.3	10	11.2	14.6	16.3	18.9	21	22.9	25.4	27.6	30.6	33.7	37.3
180	7.2	8.2	11.3	12.7	16.4	18.3	21.2	23.6	25.8	28.6	31.1	34.5	37.9	41.9
200	8	9	12.5	14	18.2	20.3	23.6	26.2	28.6	34.7	34.5	38.2	42.2	46.7
225	9	10.1	14.1	15.8	20.5	22.8	26.5	29.4	32.2	35.7	38.8	42.9	47.4	52.4
250	10	11.2	15.7	17.5	22.8	25.3	29.5	32.7	35.8	39.6	43.2	47.8	52.7	58.2
280	11.2	12.6	17.5	19.5	25.5	28.3	33	36.5	40	44.2	48.3	53.4	-	-
315	12.6	14.1	19.7	21.9	28.7	31.8	37.1	41.1	45	49.7	54.4	60.1	-	-
355	14.2	15.9	22.2	24.7	32.3	35.8	41.8	46.2	50.8	56.1	-	-	-	-
400	16	18.6	25	29	36.4	42.1	47.1	54.4	57.2	66	-	-	-	-
450	18	20.9	28.2	32.7	41	47.4	53	61.2	-	-	-	-	-	-
500	20	23.2	31.3	36.2	45.5	52.6	-	-	-	-	-	-	-	-
560	22.4	26	35	40.5	51	58.9	-	-	-	-	-	-	-	-
630	25.2	29.2	39.4	45.6	57.3	66.1	-	-	-	-	-	-	-	-
710	221.4	32.9	44.4	51.3	-	-	-	-	-	-	-	-	-	-
800	32	37	50	57.7	-	-	-	-	-	-	-	-	-	-
900	36	41.6	56.3	65	-	-	-	-	-	-	-	-	-	-
1000	40	46.2	-	-	-	-	-	-	-	-	-	-	-	-



HDPE PIPE AS PER IS 14333 MATERIAL GRADE PE 80														
Outer Dia. (MM)	PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Wall Thickness in MM													
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
63	-	-	3	3.5	4.4	5.1	5.8	6.6	7	7.9	8.6	9.7	10.5	11.8
75	2.3	2.8	3.6	4.2	5.3	6.1	6.9	7.8	8.4	9.5	10.2	11.5	12.5	14
90	2.8	3.3	4.3	5	6.3	7.2	8.2	9.3	10	11.2	12.2	13.7	15	16.7
110	3.4	4	5.3	6.1	7.7	8.7	10	11.2	12.3	13.8	14.9	16.6	18.4	20.5
125	3.8	4.4	6	6.8	8.8	9.9	11.4	12.8	13.9	15.5	16.9	18.8	20.9	23.2
140	4.3	5	6.7	7.6	9.8	11	12.8	14.3	15.6	17.4	19	21.1	23.4	26
160	4.9	5.6	7.7	8.7	11.2	12.6	14.6	16.3	17.8	19.8	21.7	24.1	26.7	29.6
180	5.5	6.3	8.6	9.7	12.6	14.1	16.4	18.3	20	22.2	24.4	27.1	30	33.2
200	6.1	7	9.6	10.8	14	15.6	18.2	20.3	22.3	24.8	27.1	30.1	33.4	37
225	6.9	7.8	10.8	12.1	15.7	17.5	20.5	22.8	25	27.7	30.5	33.8	37.5	41.5
250	7.6	8.6	12	13.4	17.5	19.5	22.8	25.3	27.8	30.8	33.8	37.4	41.7	46.1
280	8.5	9.6	13.4	15	19.6	21.8	25.5	28.3	31.2	34.6	37.9	41.9	46.7	51.6
315	9.6	10.8	15	16.7	22	24.4	28.7	31.8	35	38.7	42.6	47.1	52.5	58
355	10.8	12.1	17	18.9	24.8	27.5	32.3	35.8	39.5	43.7	48	53	59.2	65.4
400	12.2	14.3	19.1	22.2	28	32.4	36.4	42.1	44.5	51.4	54.1	62.5	-	-
450	13.7	16	21.5	25	31.4	36.4	41	47.4	50	57.7	-	-	-	-
500	15.2	17.7	23.9	27.7	34.9	40.4	45.5	52.6	55.6	64.2	-	-	-	-
560	17	19.8	26.7	31	39.1	45.2	51	58.9	-	-	-	-	-	-
630	19.1	22.2	30	34.7	44	50.8	57.3	66.1	-	-	-	-	-	-
710	21.6	25.1	33.9	39.2	49.6	57.3	-	-	-	-	-	-	-	-
800	24.3	28.2	38.1	44.1	55.9	64.5	-	-	-	-	-	-	-	-
900	27.3	31.6	42.9	49.6	-	-	-	-	-	-	-	-	-	-
1000	30.4	35.2	47.7	55.1	-	-	-	-	-	-	-	-	-	-



HDPE PIPE AS PER IS 14333 MATERIAL GRADE PE 100										
Outer Dia. (MM)	PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Wall Thickness in MM									
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
63	3.6	4.2	4.7	5.4	5.8	6.6	7	7.9	8.7	9.8
75	4.3	5	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	5.1	5.9	6.7	7.6	8.2	6.3	10	11.2	12.5	14
110	6.3	7.2	8.2	9.3	10	11.2	12.3	13.8	15.2	17
125	7.1	8.1	9.3	10.5	11.4	12.8	13.9	15.5	17.3	19.3
140	8	9	10.4	11.7	12.8	14.3	15.6	17.4	19.4	21.6
160	9.1	10.3	11.9	13.3	14.6	16.3	17.8	19.8	22.1	24.6
180	10.2	11.5	13.4	15	16.4	18.3	20	22.2	24.9	27.6
200	11.4	12.8	14.9	16.6	18.2	20.3	22.3	24.8	27.6	30.6
225	12.8	14.3	16.7	18.6	20.5	22.8	25	27.7	31.1	34.5
250	14.2	15.9	18.6	20.7	22.8	25.3	27.8	30.8	34.5	38.2
280	15.9	17.7	20.8	23.1	25.2	28.3	31.2	34.6	38.7	42.8
315	17.9	19.9	23.4	26	28.7	31.8	35	38.7	43.5	48.1
355	20.1	22.4	26.3	29.2	32.3	35.8	39.5	43.7	49	54.1
400	22.7	26.4	29.7	34.4	36.4	42.1	44.5	51.4	55.2	63.7
450	25.5	29.6	33.4	38.7	41	47.4	50	57.7	-	-
500	28.4	32.9	37.1	42.9	45.5	52.6	55.6	64.2	-	-
560	31.7	36.7	41.5	48	51	58.9	-	-	-	-
630	35.7	41.3	46.7	54	57.3	66.1	-	-	-	-
710	40.2	46.5	52.6	60.7	-	-	-	-	-	-
800	45.3	52.3	-	-	-	-	-	-	-	-
900	51	58.9	-	-	-	-	-	-	-	-
1000	56.7	65.5	-	-	-	-	-	-	-	-

SPRINKLER PIPE AS PER IS 14151								
Outer Dia. (MM)	Class 1		Class 2		Class 3		Class 4	
	(0.25 MPa)		(0.32 MPa)		(0.4 MPa)		(0.6 MPa)	
	Wall Thickness in MM							
	Min	Max	Min	Max	Min	Max	Min	Max
40	-	-	-	-	-	-	2.3	2.8
50	-	-	-	-	2	2.4	2.9	3.4
63	-	-	2	2.4	2.5	2.9	3.8	4.4
75	2	2.4	2.5	2.9	3	3.4	4.5	5.2
90	2.2	2.6	2.9	3.4	3.5	4.1	5.3	6.1
110	2.7	3.2	3.4	3.9	4.2	4.8	6.5	7.4
125	3.1	3.6	3.8	4.5	4.8	5.5	7.4	8.3
140	3.5	4.1	4.3	5	5.4	6.1	8.3	9.3
160	3.9	4.5	4.9	5.6	6.2	7	9.4	10.6
180	4.4	5	5.5	6.3	6.9	7.8	10.6	11.9
200	4.9	5.6	6.1	7	7.7	8.7	11.8	13.2