

Specifications of HDPE Pipes For Water Supply

ISO 4427 2019 Plastics piping systems for water supply, and for drainage and sewerage under pressure-PE(pipes & fittings)

PE 100	Pipe Series (S)								
	SDR 7.4	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	SDR 33	SDR 41
	S 3.2	S 4	S 5	S 6.3	S 8	S 10	S 12.5	S 16	S 20
	Nominal Pressure (PN) bar								
	PN 25	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6	PN 5	PN 4
Nominal Size DN	Wall Thickness mm								
	emin	emin	emin	emin	emin	emin	emin	emin	emin
16	2.3	2.0							
20	3.0	2.3	2.0						
25	3.5	3.0	2.3	2.0					
32	4.4	3.6	3.0	2.4	2.0				
40	5.5	4.5	3.7	3.0	2.4	2.0			
50	6.9	5.6	4.6	3.7	3.0	2.4	2.0		
63	8.6	7.1	5.8	4.7	3.8	3.0	2.5		
75	10.3	8.4	6.8	5.6	4.5	3.6	2.9		
90	12.3	10.1	8.2	6.7	5.4	4.3	3.5		
110	15.1	12.3	10.0	8.1	6.6	5.3	4.2		
125	17.1	14.0	11.4	9.2	7.4	6.0	4.8		
140	19.2	15.7	12.7	10.3	8.3	6.7	5.4		
160	21.9	17.9	14.6	11.8	9.5	7.7	6.2		
180	24.6	20.1	16.4	13.3	10.7	8.6	6.9		
200	27.4	22.4	18.2	14.7	11.9	9.6	7.7		
225	30.8	25.2	20.5	16.6	13.4	10.8	8.6		
250	34.2	27.9	22.7	18.4	14.8	11.9	9.6		
280	38.3	31.3	25.4	20.6	16.6	13.4	10.7		
315	43.1	35.2	28.6	23.2	18.7	15.0	12.1	9.7	7.7
355	48.5	39.7	32.2	26.1	21.1	16.9	13.6	10.9	8.7
400	54.7	44.7	36.3	29.4	23.7	19.1	15.3	12.3	9.8
450	61.5	50.3	40.9	33.1	26.7	21.5	17.2	13.8	11.0
500		55.8	45.4	36.8	29.7	23.9	19.1	15.3	12.3
560		62.5	50.8	41.2	33.2	26.7	21.4	17.2	13.7
630		70.3	57.2	46.3	37.4	30.0	24.1	19.3	15.4
710		79.3	64.5	52.2	42.1	33.9	27.2	21.8	17.4
800		89.3	72.6	58.8	47.4	38.1	30.6	24.5	19.6
900			81.7	66.1	53.3	42.9	34.4	27.6	22.0
1000			90.2	73.5	59.3	47.7	38.2	30.6	24.5
1200				88.2	71.1	57.2	45.9	36.7	29.4
1400				102.8	83.0	66.7	53.5	42.9	34.3
1600				117.5	94.8	76.2	61.2	49.0	39.2

Note 1: 1 bar = 0.1 Mpa

Note 2: PN value are based on C = 1.25

GB/T 13663 2018 PE piping system for water supply(pipes & fittings)

PE 100	Pipe Series (S)							
	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	SDR 33	SDR 41
	S 4	S 5	S 6.3	S 8	S 10	S 12.5	S 16	S 20
	Nominal Pressure (PN) bar							
	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6	PN 5	PN 4
Nominal Size DN	Wall Thickness(mm)							
	en	en	en	en	en	en	en	en
16	2.3							
20	2.3	2.3						
25	3.0	2.3	2.3					
32	3.6	3.0	2.4	2.3				
40	4.5	3.7	3.0	2.4	2.3			
50	5.6	4.6	3.7	3.0	2.4	2.3		
63	7.1	5.8	4.7	3.8	3.0	2.5		
75	8.4	6.8	5.6	4.5	3.6	2.9		
90	10.1	8.2	6.7	5.4	4.3	3.5		
110	12.3	10.0	8.1	6.6	5.3	4.2		
125	14.0	11.4	9.2	7.4	6.0	4.8		
140	15.7	12.7	10.3	8.3	6.7	5.4		
160	17.9	14.6	11.8	9.5	7.7	6.2		
180	20.1	16.4	13.3	10.7	8.6	6.9		
200	22.4	18.2	14.7	11.9	9.6	7.7		
225	25.2	20.5	16.6	13.4	10.8	8.6		
250	27.9	22.7	18.4	14.8	11.9	9.6		
280	31.3	25.4	20.6	16.6	13.4	10.7		
315	35.2	28.6	23.2	18.7	15.0	12.1	9.7	7.7
355	39.7	32.2	26.1	21.1	16.9	13.6	10.9	8.7
400	44.7	36.3	29.4	23.7	19.1	15.3	12.3	9.8
450	50.3	40.9	33.1	26.7	21.5	17.2	13.8	11.0
500	55.8	45.4	36.8	29.7	23.9	19.1	15.3	12.3
560	62.5	50.8	41.2	33.2	26.7	21.4	17.2	13.7
630	70.3	57.2	46.3	37.4	30.0	24.1	19.3	15.4
710	79.3	64.5	52.2	42.1	33.9	27.2	21.8	17.4
800	89.3	72.6	58.8	47.4	38.1	30.6	24.5	19.6
900		81.7	66.2	53.3	42.9	34.4	27.6	22.0
1000		90.2	72.5	59.3	47.7	38.2	30.6	24.5
1200			88.2	67.9	57.2	45.9	36.7	29.4
1400			102.9	82.4	66.7	53.5	42.9	34.3

1600			117.6	94.1	76.2	61.2	49.0	39.2
Note 1: 1 bar = 0.1 Mpa								
Note 2: PN value are based on C = 1.25								

EN 12201 PE piping system for water supply(pipes & fittings)

PE 100	Pipe Series (S)								
	SDR 7.4	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	SDR 33	SDR 41
	S 3.2	S 4	S 5	S 6.3	S 8	S 10	S 12.5	S 16	S 20
	Nominal Pressure (PN) bar								
	PN 25	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6	PN 5	PN 4
Nominal Size DN	Wall Thickness mm								
	e_{min}	e_{min}	e_{min}	e_{min}	e_{min}	e_{min}	e_{min}	e_{min}	e_{min}
16	2.3	2.0							
20	3.0	2.3	2.0						
25	3.5	3.0	2.3	2.0					
32	4.4	3.6	3.0	2.4	2.0				
40	5.5	4.5	3.7	3.0	2.4	2.0			
50	6.9	5.6	4.6	3.7	3.0	2.4	2.0		
63	8.6	7.1	5.8	4.7	3.8	3.0	2.5		
75	10.3	8.4	6.8	5.6	4.5	3.6	2.9		
90	12.3	10.1	8.2	6.7	5.4	4.3	3.5		
110	15.1	12.3	10.0	8.1	6.6	5.3	4.2		
125	17.1	14.0	11.4	9.2	7.4	6.0	4.8		
140	19.2	15.7	12.7	10.3	8.3	6.7	5.4		
160	21.9	17.9	14.6	11.8	9.5	7.7	6.2		
180	24.6	20.1	16.4	13.3	10.7	8.6	6.9		
200	27.4	22.4	18.2	14.7	11.9	9.6	7.7		
225	30.8	25.2	20.5	16.6	13.4	10.8	8.6		
250	34.2	27.9	22.7	18.4	14.8	11.9	9.6		
280	38.3	31.3	25.4	20.6	16.6	13.4	10.7		
315	43.1	35.2	28.6	23.2	18.7	15.0	12.1	9.7	7.7
355	48.5	39.7	32.2	26.1	21.1	16.9	13.6	10.9	8.7
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450	61.5	50.3	40.9	33.1	26.7	21.5	17.2	13.8	11.0
500		55.8	45.4	36.8	29.7	23.9	19.1	15.3	12.3
560		62.5	50.8	41.2	33.2	26.7	21.4	17.2	13.7
630		70.3	57.2	46.3	37.4	30.0	24.1	19.3	15.4
710		79.3	64.5	52.2	42.1	33.9	27.2	21.8	17.4
800		89.3	72.6	58.8	47.4	38.1	30.6	24.5	19.6
900			81.7	66.1	53.3	42.9	34.4	27.6	22.0
1000			90.8	73.5	59.3	47.7	38.2	30.6	24.5

1200				88.2	71.1	57.2	45.9	36.7	29.4
1400				102.8	83.0	66.7	53.5	42.9	34.3
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