

DIMENSIONAL CHART OF POLYETHYLENE PIPES AS PER ISO 4427 - 2 : 2003												
			All dimensions are in mm									
Pipe Series [S=(SDR-1)/2]			20	16		12.5		10		8		
Standard Dimension Ratio (SDR)			41	33		26		21		17		
Grade of Materials			Nominal Pressure (PN) in Bar based on C = 1.25									
PE 40			–	–		PN 2.5		PN 3.2		PN 4		
PE 63			PN 2.5	PN 3.2		PN 4		PN 5		–		
PE 80			PN 3.2	PN 4		PN 5		PN 6		PN 8		
PE 100			PN 4	PN 5		PN 6		PN 8		PN 10		
Nominal Size / Diameter in mm	Mean Outside Diameter		Wall Thickness									
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	16.0	16.3	–	–	–	–	–	–	–	–	–	–
20	20.0	20.3	–	–	–	–	–	–	–	–	–	–
25	25.0	25.3	–	–	–	–	–	–	–	–	–	–
32	32.0	32.3	–	–	–	–	–	–	–	–	2.0	2.3
40	40.0	40.4	–	–	–	–	–	–	2.0	2.3	2.4	2.8
50	50.0	50.4	–	–	–	–	2.0	2.3	2.4	2.8	3.0	3.4
63	63.0	63.4	–	–	–	–	2.5	2.9	3.0	3.4	3.8	4.3
75	75.0	75.5	–	–	–	–	2.9	3.3	3.6	4.1	4.5	5.1
90	90.0	90.6	–	–	–	–	3.5	4.0	4.3	4.9	5.4	6.1
110	110.0	110.7	–	–	–	–	4.2	4.8	5.3	6.0	6.6	7.4
125	125.0	125.8	–	–	–	–	4.8	5.4	6.0	6.7	7.4	8.3
140	140.0	140.9	–	–	–	–	5.4	6.1	6.7	7.5	8.3	9.3
160	160.0	161.0	–	–	–	–	6.2	7.0	7.7	8.6	9.5	10.6
180	180.0	181.1	–	–	–	–	6.9	7.7	8.6	9.6	10.7	11.9
200	200.0	201.2	–	–	–	–	7.7	8.6	9.6	10.7	11.9	13.2
225	225.0	226.4	–	–	–	–	8.6	9.6	10.8	12.0	13.4	14.9
250	250.0	251.5	–	–	–	–	9.6	10.7	11.9	13.2	14.8	16.4
280	280.0	281.7	–	–	–	–	10.7	11.9	13.4	14.9	16.6	18.4
315	315.0	316.9	7.7	8.6	9.7	10.8	12.1	13.5	15.0	16.6	18.7	20.7
355	355.0	357.2	8.7	9.7	10.9	12.1	13.6	15.1	16.9	18.7	21.1	23.4
400	400.0	402.4	9.8	10.9	12.3	13.7	15.3	17.0	19.1	21.2	23.7	26.2
450	450.0	452.7	11.0	12.2	13.8	15.3	17.2	19.1	21.5	23.8	26.7	29.5
500	500.0	503.0	12.3	13.7	15.3	17.0	19.1	21.2	23.9	26.4	29.7	32.8
560	560.0	563.4	13.7	15.2	17.2	19.1	21.4	23.7	26.7	29.5	33.2	36.7
630	630.0	633.8	15.4	17.1	19.3	21.4	24.1	26.7	30.0	33.1	37.4	41.3
710	710.0	716.4	17.4	19.3	21.8	24.1	27.2	30.1	33.9	37.4	42.1	46.5
800	800.0	807.2	19.6	21.7	24.5	27.1	30.6	33.8	38.1	42.1	47.4	52.3
900	900.0	908.1	22.0	24.3	27.6	30.5	34.4	38.3	42.9	47.3	53.3	58.8
1000	1000.0	1009.0	24.5	27.1	30.6	33.5	38.2	42.2	47.7	52.6	59.3	65.4
1200	1200.0	1210.8	29.4	32.5	36.7	40.5	45.9	50.6	57.2	63.1	67.9	74.8
1400	1400.0	1412.6	34.3	37.9	42.9	47.3	53.5	59.0	66.7	73.5	82.4	90.8
1600	1600.0	1614.4	39.2	43.3	49.0	54.0	61.2	67.5	76.2	84.0	94.1	103.7
1800	1800.0	1816.2	43.8	48.3	54.5	60.1	69.1	76.2	85.7	94.4	105.9	116.6
2000	2000.0	2018.0	48.8	53.8	60.6	66.8	76.9	84.7	95.2	104.9	117.6	129.5
TEMPERATURE CORRECTION OR DERATING FACTORS												
		° F	68	77	86	95	104					
Operating Temperature		° C	20	25	30	35	40					
Coefficient			1.00	0.93	0.87	0.8	0.74					