

PRODUCT IDENTIFICATION

Colour	Application
Black	Non Potable Water
Blue Stripe	Potable Water
Purple Stripe	Recycled Water
Cream Stripe	Pressure Sewer
Red Stripe	Fire Service
Yellow Stripe	Gas
Orange	Electrical Conduit
White	Communications Conduit
White External	Co-extrusion for above ground high temperature environments

TECHNICAL DATA

Standard:	AS/NZS 4130
Size Range:	DN 20 – DN 1200
Material:	PE100 Polyethylene (Water/Sewer) PE80/100 (Gas) PE80 (Electrical/Communications)
Pressure Range:	PN4 to PN25 (at 20deg C)
Lengths:	Coils: 25m to 200m (Refer Table below) Pipe: Standard 12m Other lengths made to order

Refer to Pipe Dimensions section for dimensional data, weights and pressure ratings

OPERATING PRESSURES – PE100 PIPE									
Pressure Class:		PN 4	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
SDR Ratio:		SDR 41	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
Operating Temp (°C)	Min Life (Yrs)	Maximum Allowable Operating Pressure (kPa)							
		20	100	400	640	800	1000	1270	1600
25	100	360	580	730	910	1150	1450	1820	2270
30	100	360	580	730	910	1150	1450	1820	2270
35	50	330	530	670	830	1060	1330	1670	2080
40	50	330	530	670	830	1060	1330	1670	2080
45	35	310	490	620	770	990	1230	1540	1920
50	22	290	460	570	710	910	1140	1430	1790
55	15	290	460	570	710	910	1140	1430	1790
60	7	270	430	530	670	850	1070	1330	1670
80	1	200	320	400	500	630	800	1000	1250

Source: PIPA Industry Guideline POP013 (Refer source for PE80 Pipe Pressures)

SDR: Standard Dimension Ratio = Outside Diameter / Wall Thickness

SERIES 1 PIPE DIMENSIONS (SDR 41 – SDR 21)

POLYETHYLENE PIPE DIMENSIONS – AS/NZS 4130 SERIES 1 (EXCL GAS PIPE)												
Type	SDR 41			SDR 33			SDR 26			SDR 21		
PE100	PN 4						PN 6.3			PN 8		
PE80	PN 3,2			PN 4						PN 6.3		
Nom OD	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m
16												
20												
25												
32										1.6	28.7	0.16
40										1.9	36.1	0.23
50										2.4	45.1	0.36
63							2.4	58.1	0.46	3.0	56.9	0.57
75				2.3	70.4	0.53	2.9	69.2	0.67	3.6	67.7	0.82
90				2.8	84.5	0.77	3.5	83.0	1.0	4.3	81.3	1.2
110	2.7	104.7	0.92	3.4	103.2	1.1	4.3	101.3	1.5	5.3	99.2	1.8
125	3.1	118.9	1.2	3.9	117.3	1.5	4.8	115.4	1.8	6.0	112.9	2.3
140	3.5	133.2	1.5	4.3	131.5	1.8	5.4	129.2	2.3	6.7	126.5	2.8
160	4.0	152.3	2.0	4.9	150.4	2.4	6.2	147.6	3.0	7.7	144.5	3.7
180	4.4	171.5	2.5	5.5	169.2	3.0	6.9	166.3	3.8	8.6	162.7	4.7
200	4.9	190.5	3.0	6.2	187.7	3.8	7.7	184.6	4.7	9.6	180.6	5.8
225	5.5	214.4	3.8	6.9	211.5	4.8	8.6	207.9	5.9	10.8	203.3	7.4
250	6.2	238.0	4.8	7.7	234.9	5.9	9.6	230.9	7.4	11.9	226.1	9.0
280	6.9	266.7	6.0	8.6	263.1	7.4	10.7	258.7	9.2	13.4	253.0	11.4
315	7.7	300.2	7.5	9.7	296.0	9.4	12.1	290.9	11.7	15.0	284.9	14.3
355	8.7	338.2	9.6	10.9	333.6	11.9	13.6	327.9	14.8	16.9	321.0	18.2
400	9.8	380.0	12.2	12.3	375.8	15.1	15.3	369.5	18.8	19.1	361.5	23.2
450	11.0	428.9	15.4	13.8	423.0	19.1	17.2	415.8	23.8	21.5	406.8	29.3
500	12.3	476.3	19.1	15.3	470.0	23.5	19.1	462.0	29.3	23.9	452.0	36.2
560	13.7	533.7	23.9	17.2	526.3	29.6	21.4	517.5	36.8	26.7	506.4	45.3
630	15.4	600.4	30.2	19.3	592.2	37.4	24.1	582.1	46.6	30.0	569.8	57.3
710	17.4	676.5	38.4	21.8	667.3	47.6	27.2	655.9	59.3	33.9	641.9	73.0
800	19.6	762.3	48.8	24.5	752.0	60.2	30.6	739.2	75.2	38.1	723.4	92.4
900	22.0	857.8	61.6	27.6	846.0	76.3	34.4	831.7	95.1	42.9	813.9	117.1
1000	24.5	952.9	76.2	30.6	940.1	94.0	38.2	924.1	117.4	47.7	904.2	144.6
1200	29.4	1143.1	109.7	36.7	1127.8	135.3	45.9	1108.5	169.2	57.2	1084.7	208.1
1400	34.4	1332.6	149.8	42.9	1314.8	184.5	53.2	1293.1	228.8			
1600	39.3	1522.3	195.6	49.0	1502.0	240.9	61.3	1476.1	301.3			

Mass shown is an average only and will vary depending on PE80/100 material and manufacturing tolerances

SERIES 1 PIPE DIMENSIONS (SDR 17 – SDR 9)

POLYETHYLENE PIPE DIMENSIONS – AS/NZS 4130 SERIES 1 (EXCL GAS PIPE)												
Type	SDR 17			SDR 13.6			SDR 11			SDR 9		
PE100	PN 10			PN 12.5			PN 16			PN 20		
PE80	PN 8			PN 10			PN 12.5			PN 16		
Nom OD	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m
16							1.6	12.7	0.08	1.8	12.3	0.09
20				1.6	16.7	0.10	1.9	16.1	0.11	2.3	15.2	0.14
25	1.6	21.7	0.12	1.9	21.1	0.14	2.3	20.2	0.17	2.8	19.2	0.21
32	1.9	28.1	0.18	2.4	27.0	0.23	2.9	26.0	0.28	3.6	24.5	0.35
40	2.4	35.0	0.29	3.0	33.8	0.36	3.7	32.3	0.44	4.5	30.6	0.54
50	3.0	43.9	0.45	3.7	42.4	0.56	4.6	40.4	0.69	5.6	38.4	0.84
63	3.8	55.2	0.72	4.7	53.3	0.89	5.8	51.0	1.1	7.1	48.2	1.3
75	4.5	65.8	1.0	5.5	63.7	1.2	6.8	61.0	1.5	8.4	57.6	1.9
90	5.4	79.0	1.5	6.6	76.5	1.8	8.2	73.1	2.2	10.1	69.1	2.7
110	6.6	96.5	2.2	8.1	93.3	2.7	10.0	89.4	3.3	12.3	84.5	4.1
125	7.4	109.9	2.8	9.2	106.1	3.5	11.4	101.5	4.3	14.0	96.1	5.3
140	8.3	123.1	3.5	10.3	118.9	4.3	12.7	113.9	5.3	15.7	107.6	6.6
160	9.5	140.7	4.6	11.8	135.9	5.7	14.6	130.0	7.0	17.9	123.1	8.6
180	10.7	158.3	5.8	13.3	152.8	7.2	16.4	146.3	8.9	20.1	138.5	10.9
200	11.9	175.8	7.1	14.7	169.9	8.8	18.2	162.5	10.9	22.4	153.7	13.4
225	13.4	197.8	9.0	16.6	191.1	11.2	20.5	182.9	13.8	25.1	173.2	16.9
250	14.8	220.0	11.1	18.4	212.4	13.8	22.7	203.4	17.0	27.9	192.5	20.9
280	16.6	246.3	13.9	20.6	237.9	17.3	25.4	227.8	21.3	31.3	215.4	26.3
315	18.7	277.1	17.7	23.2	267.6	21.9	28.6	256.3	27.0	35.2	242.4	33.3
355	21.1	311.1	22.5	26.1	301.6	27.8	32.2	288.8	34.3	39.6	273.3	42.2
400	23.7	351.9	28.4	29.4	339.9	35.3	36.3	325.4	43.6	44.7	307.8	53.6
450	26.7	395.9	36.0	33.1	382.4	44.7	40.9	366.1	55.2	50.2	346.5	67.8
500	29.6	440.0	44.4	36.8	424.9	55.2	45.4	406.8	68.1	55.8	385.0	83.7
560	33.2	492.7	55.8	41.2	475.9	69.2	50.8	455.8	85.4			
630	37.3	554.4	70.5	46.3	535.5	87.5	57.2	512.6	108.1			
710	42.1	624.6	89.7	52.2	603.4	111.2						
800	47.4	703.9	113.8	58.8	680.0	141.1						
900	53.5	791.7	144.5									
1000	59.3	879.8	177.9									
1200												
1400												
1600												

Mass shown is an average only and will vary depending on PE80/100 material and manufacturing tolerances

GAS PIPE – SERIES 2 POLY

Material: PE 100 Polyethylene

Classes: SDR 17, SDR 13.6 & SDR 11

Coil Size Range: 20mm OD to 140mm OD

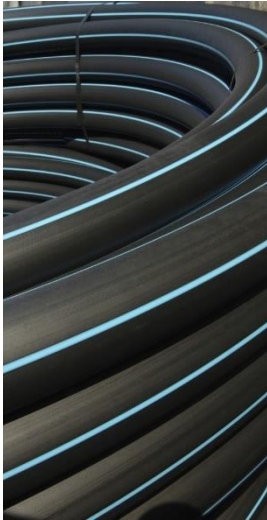
Pipe Range: 20mm OD to 630mm OD



SERIES 2 GAS PIPE DIMENSIONS

POLYETHYLENE PIPE DIMENSIONS – AS/NZS 4130 SERIES 2 (GAS PIPE)									
Type	SDR 17			SDR 13.6			SDR 11		
PE100	PN 10			PN 12.5			PN 16		
PE80	PN 8			PN 10			PN 12.5		
Nom OD	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m	Min Wall	Mean ID	Av Mass Kg/m
16	2.3	11.3	0.11	3.0	9.8	0.14	3.0	9.8	0.14
20	2.3	15.3	0.14	3.0	13.8	0.18	3.0	13.8	0.18
25	2.3	20.3	0.17	3.0	18.8	0.23	3.0	18.8	0.23
32	2.3	27.3	0.22	3.0	25.8	0.29	3.0	25.8	0.29
40	2.3	35.3	0.28	3.0	33.8	0.36	3.7	32.3	0.45
50	2.9	44.0	0.44	3.7	42.3	0.56	4.6	40.4	0.69
63	3.6	55.5	0.68	4.7	53.2	0.89	5.8	50.9	1.1
75	4.3	66.2	0.97	5.5	63.6	1.2	6.8	60.9	1.5
90	5.2	79.3	1.4	6.6	76.3	1.8	8.2	72.9	2.2
110	6.3	97.1	2.1	8.1	93.2	2.7	10.0	89.3	3.3
125	7.1	110.4	2.7	9.2	105.9	3.5	11.4	101.3	4.3
140	8.0	123.6	3.4	10.3	118.7	4.3	12.7	113.7	5.4
160	9.1	141.3	4.4	11.8	135.6	5.7	14.6	129.7	7.0
180	10.3	158.9	5.6	13.3	152.5	7.2	16.4	146.0	8.9
200	11.4	176.6	6.9	14.7	169.6	8.9	18.2	162.2	11.0
225	12.8	198.7	8.7	16.6	190.7	11.3	20.5	182.5	13.9
250	14.2	220.9	10.7	18.4	212.0	13.9	22.7	203.0	17.1
280	16.0	247.6	13.5	20.6	237.9	17.4	25.4	227.8	21.4
315	17.9	278.8	17.0	23.2	267.6	22.0	28.6	256.3	27.2
355	20.2	314.1	21.6	26.1	301.6	27.9	32.3	288.7	34.6
400	22.8	353.8	27.5	29.4	339.9	35.5	36.4	325.3	43.9
450	25.6	398.0	34.7	33.1	382.4	44.9	41.0	366.0	55.6
500	28.5	442.3	43.0	36.8	424.9	55.5	45.5	406.7	68.6
560	31.9	495.4	53.9	41.2	475.8	69.6	51.0	455.3	86.1
630	35.8	557.6	68.0	46.3	535.5	88.0	57.3	512.5	108.9

Mass shown is an average only and will vary depending on material and tolerances



POLYETHYLENE PIPE COILS – PE100					
OD	PN 8	PN 10	PN 12.5	PN 16	Std Coil Lengths
20	PP02008	PP02010	PP02012	PP02016	50m, 200m
25	PP02508	PP02510	PP02512	PP02516	50m, 200m
32	PP03208	PP03210	PP03212	PP03216	50m, 200m
40	PP04008	PP04010	PP04012	PP04016	50m, 150m
50	PP05008	PP05010	PP05012	PP05016	50m, 150m
63	PP06308	PP06310	PP06312	PP06316	50m, 100m
75	PP07508	PP07510	PP07512	PP07516	100m
90	PP09008	PP09010	PP09012	PP09016	100m
110	PP11008	PP11010	PP11012	PP11016	100m
125	PP12508	PP12510	PP12512	PP12516	100m
140	PP14008	PP14010	PP14012	PP14016	100m
160	PP16008	PP16010	PP16012	PP16016	100m

Highlighted codes represent more common stock lines

Other coil lengths are available and may be made to order

CONDUIT – ELECTRICAL & COMMUNICATIONS

Material: PE 100 Polyethylene

Classes: SDR 13.6 PN12.5

Coil Size Range: 63mm OD to 140mm OD

Pipe Range: 110mm OD to 630mm OD

Options: Other pipe diameters & classes available on special request



PE CONDUIT COILS – PE100			
OD	Electrical – Orange	Communications – White	Std Coil Length
63	PP06312140O	PP06312140W	100
90	PP09012100O	PP09012100W	100
110	PP11012100O	PP11012100W	100
125	PP12512100O	PP12512100W	100
140	PP14012100O	PP14012100W	100

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