

**KDS019 Maximum Allowable Pressures for Polyethylene
 Pipes Manufactured to AS/NZ 4130**

SDR		41			33			26			21		
PN for PE 80		3.2			4			6.3			8		
PN for PE 100		4			6.3			8			10		
DN (mm)	Min. Mean OD (mm)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)
16	16	1.6	12.7	0.075	1.6	12.7	0.075	1.6	12.7	0.075	1.6	12.7	0.075
20	20	1.6	16.7	0.1	1.6	16.7	0.1	1.6	16.7	0.1	1.6	16.7	0.1
25	25	1.6	21.7	0.12	1.6	21.7	0.12	1.6	21.7	0.12	1.6	21.7	0.12
32	32	1.6	28.7	0.16	1.6	28.7	0.16	1.6	28.7	0.16	1.6	28.7	0.16
40	40	1.6	36.7	0.2	1.6	36.7	0.2	1.6	36.1	0.2	1.9	36.1	0.23
50	50	1.6	46.7	0.25	1.6	46.7	0.25	2	45.9	0.31	2.4	45	0.37
63	63	1.6	59.7	0.32	2	59	0.38	2.4	58	0.47	3	56.8	0.57
75	75	1.9	71.2	0.45	2.3	70.3	0.54	2.9	69.1	0.67	3.6	67.6	0.81
90	90	2.2	85.5	0.63	2.8	84.3	0.78	3.5	82.8	0.97	4.3	81.1	1.17
110	110	2.7	104.6	0.92	3.4	103.1	1.15	4.3	101.2	1.46	5.3	99.1	1.75
125	125	3.1	118.9	1.2	3.9	117.2	1.49	4.8	115.3	1.84	6	112.8	2.24
140	140	3.5	133.1	1.58	4.3	131.4	1.85	5.4	129.1	2.33	6.7	126.4	2.81
160	160	4	152.2	1.97	4.9	150.1	2.44	6.2	147.5	3.05	7.7	144.4	3.68
180	180	4.4	171.4	2.45	5.5	169	3.06	6.9	166.2	3.8	8.6	162.6	4.63
200	200	4.9	190.4	3.01	6.2	187.7	3.77	7.7	184.5	4.71	9.6	180.5	5.73
225	225	5.5	214.2	3.81	6.9	211.1	4.79	8.6	207.7	5.92	10.8	203.1	7.24
250	250	6.2	237.8	4.78	7.7	234.6	5.9	9.6	230.7	7.33	11.9	225.9	8.87
280	280	6.9	266.7	5.92	8.6	262.8	7.41	10.7	258.6	9.15	13.4	252.9	11.19
315	315	7.7	300	7.44	9.7	295.7	9.34	12.1	290.7	11.66	15	284.7	14.07
355	355	8.7	338.1	9.46	10.9	333.3	11.85	13.6	327.8	14.73	16.9	320.9	17.86
400	400	9.8	380.9	12	12.3	375.5	15.02	15.3	369.3	18.68	19.1	361.3	22.77
450	450	11	428.6	15.13	13.8	422.4	19.04	17.2	415.5	23.61	21.5	406.5	28.8
500	500	12.3	476	18.83	15.3	469.3	23.52	19.1	461.7	29.13	23.9	451.7	35.53
560	560	13.7	533.4	23.45	17.2	525.7	29.49	21.4	517.2	36.51	26.7	506.1	44.47
630	630	15.4	600.5	29.67	19.3	591.5	37.26	24.1	581.8	46.27	30	569.5	56.17
710	710	17.4	676.3	37.65	21.8	666.6	47.3	27.2	655.6	58.81	33.9	641.6	71.52
800	800	19.6	761.9	47.87	24.5	751	60.09	30.6	738.8	74.48	38.1	723	90.65

SDR		17			13.6			11			9		
PN for PE 80		8			10			12.5			16		
PN for PE 100		10			12.5			16			20		
DN (mm)	Min. Mean OD (mm)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)	Min. Wall Thickness (mm)	Mean Internal Diameter (mm)	Average Mass (kg/m)
16	16	1.6	12.7	0.075	1.6	12.7	0.075	1.6	12.7	0.075	1.8	12.7	0.082
20	20	1.6	16.7	0.1	1.6	16.7	0.1	1.9	16.1	0.11	2.3	15.2	0.13
25	25	1.6	21.1	0.12	1.9	21.1	0.14	2.3	20.2	0.17	2.8	19.2	0.2
32	32	1.9	28.1	0.18	2.4	27	0.23	2.9	26	0.27	3.6	24.5	0.32
40	40	2.4	35	0.29	3	33.8	0.35	3.7	32.3	0.42	4.5	30.6	0.5
50	50	3	43.8	0.45	3.7	42.3	0.54	4.6	40.4	0.66	5.6	38.3	0.78
63	63	3.8	55.1	0.71	4.7	53.2	0.86	5.8	50.9	1.04	7.1	48.1	1.25
75	75	4.5	65.7	1	5.5	63.6	1.2	6.8	60.9	1.45	8.4	57.5	1.75
90	90	5.4	78.8	1.44	6.6	76.3	1.73	8.2	72.9	2.1	10.1	68.6	2.55
110	110	6.6	96.4	2.14	8.1	93.2	2.59	10	89.3	3.12	12.3	84.4	3.75
125	125	7.4	109.8	2.74	9.2	106	3.34	11.4	101.4	4.05	14	96	4.84
140	140	8.3	123	3.44	10.3	118.8	4.19	12.7	113.8	5.05	15.7	107.5	6.08
160	160	9.5	140.6	4.48	11.8	135.8	5.47	14.6	129.9	6.63	17.9	123	7.92
180	180	10.7	158.2	5.67	13.3	152.7	6.94	16.4	146.2	8.38	20.1	138.4	10.02
200	200	11.9	175.7	7	14.7	169.7	8.51	18.2	162.4	10.33	22.4	153.6	12.39
225	225	13.4	197.6	8.88	16.6	190.6	10.8	20.5	182.7	13.07	25.1	173	15.63
250	250	14.8	219.8	10.88	18.4	212.2	13.31	22.7	203.2	16.08	27.9	192.3	19.27
280	280	16.6	246.2	13.67	20.6	237.8	16.68	25.4	227.7	20.16	31.3	215.3	24.23
315	315	18.7	276.9	17.31	23.2	267.4	21.14	28.6	256.1	25.52	35.2	242.2	30.65
355	355	21.1	312	22.03	26.1	301.5	26.8	32.2	288.7	32.39	39.6	273.2	38.84
400	400	23.7	351.7	27.84	29.4	339.7	33.98	36.3	325.2	41.12	44.7	307.6	49.37
450	450	26.7	395.6	35.27	33.1	382.1	43.05	40.9	365.8	52.08	50.2	346	62.51
500	500	29.6	439.7	43.45	36.8	424.6	53.12	45.4	406.5	64.26	55.8	384.7	77.03
560	560	33.2	492.4	54.6	41.2	475.6	66.64	50.8	455.5	80.5			
630	630	37.2	554.1	68.99	46.3	535.2	84.23	57.2	512.3	102			
710	710	42.1	624.3	87.74	52.2	603.1	107.01						
800	800	47.4	703.2	111.57									