

POLYPIPE

Sewerage & Drainage Pipes





Benefits of Poly Pipe

- ✓ Long lengths
- ✓ Cost effectiveness
- ✓ Easy installation
- ✓ Flexibility & resilience
- ✓ Chemical resistance
- ✓ Corrosion resistance
- ✓ Abrasion resistance
- ✓ High flow capacity
- ✓ Weathering resistance
- ✓ Durability
- ✓ High impact resistance

About Poly Pipe Pty Ltd

Located in the Hunter Valley, NSW, Australia, Poly Pipe Pty Ltd (Poly Pipe) has an ultra modern extrusion, high tech manufacturing facility.

It supplies Polyethylene pipes (PE) and related products which comply with all relevant Australian statutory and regulatory requirements.

In addition Poly Pipe adheres and advances stringent safe work practices, environmental policies and quality practices in everything that it does.

As a member of a worldwide technology group with Australia-wide manufacturing facilities, Poly Pipe was established on the knowledge, experience, and reputation of its associated companies, some of which include Pipemakers and Metroll.

Its national and international customers are found in the mining, rural, irrigation, water, civil, telecommunication, sewerage and drainage industries.

Industry Applications

- ✓ Telecommunications
- ✓ Electrical
- ✓ Mining
- ✓ Water
- ✓ Gas
- ✓ Air
- ✓ Irrigation
- ✓ Sewerage & Drainage
- ✓ Civil Applications



Product Information

SewerFlex Pipe

Poly Pipe SewerFlex pipe is manufactured to the dimensions of AS/NZS4130 - SDR21 using premium polyethylene (PE)100 polyethylene compounds to SN10.

It is designed and manufactured for gravity sewerage and drainage applications.

This pipe is ideal for use in non pressure sewer applications where the end user requires a white internal surface to assist in video imaging.

Poly Pipe SewerFlex PE 100 pipe can be joined using compression fittings, electrofusion systems or thermal butt-welding equipment.

Features

- Material Grade: PE 100
- Standard length is 6m
- Colour Jacket: Grey outer with white (natural) inner

Dimensions

Nom Size	O/D		Ovality	ID Mean	Wall		WT/MT
	Min	Max			Min	Max	
110m SN 10	110.00	111.00	2,20	99.20	5.30	6.00	1.78
160m SN 10	160.00	161.50	3.20	144.45	7.70	8.60	3.74
250m SN 10	250.00	252.30	5.00	226.05	11.90	13.20	9.02

Crate Dimensions

	Length (m)	Qty	Crate Kgs	Length (m)	Qty	Crate Kgs
110m SN 10	6	43.00	459.00	12	43.00	918.00
160m SN 10	6	22.00	494.00	12	22.00	987.00
250m SN 10	6	11.00	595.00	12	11.00	1191.00

Product Information

Sewerage & Drainage

Poly Pipe Polyethylene (PE) pipe and a full range of fittings are manufactured and supplied for sewerage and drainage.

These include a range of pipe sizes and lengths pressurised drainage and sewerage requirements.

All PE pipes are made in continuous lengths that allow customers to order custom lengths.

These pipes are made from high density polyethylene.

The pipes are quality assured AS/NZS 4401 -Drainage-S16 – SDR 33 and S12.5-SDR 26.

Features

- Material Grade: PE 100
- Straight lengths only
- Standard length is 6m



Pipe Capacity of Poly Pipe Trucks-PE100

Pressure Unit Conversion

PN	kPa	m	bar	psi
4.0	400	40	4.0	58
6.3	630	63	6.3	90
8.0	800	80	8.0	116
10.0	1000	100	10.0	145
12.5	1250	125	12.5	181
16.0	1600	160	16.0	229
20.0	2000	200	20.0	290

Support Distances PE100

Size (mm)	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20
20	0.5	0.5	0.6	0.6	0.6	0.7
25	0.5	0.6	0.7	0.7	0.7	0.8
32	0.6	0.7	0.8	0.8	0.9	0.9
40	0.7	0.9	0.9	1.0	1.0	1.1
50	0.9	1.0	1.0	1.1	1.2	1.2
63	1.0	1.2	1.2	1.3	1.4	1.4
75	1.1	1.3	1.4	1.5	1.5	1.6
90	1.3	1.5	1.6	1.7	1.7	1.8
110	1.5	1.7	1.8	1.9	2.0	2.1
125	1.6	1.8	2.0	2.1	2.2	2.3
140	1.7	2.0	2.1	2.2	2.4	2.5
160	1.9	2.2	2.3	2.5	2.6	2.7
200	2.2	2.5	2.7	2.9	3.0	3.2

Pipe Outside Diameter (mm)	No. of Pipes
63 (100m)	35
75 (100m)	25
90 (100m)	24
110 (100m)	20
110	300
125	224
140	195
160	132
180	120
200	100
225	81
250	64
280	56
315	42
355	42
400	30
450	25
500	20
560	15
630	12
710	9
800	6

Guide Only: Weight restrictions may apply. Maximum weight for all trailers is 19T. Special trailers may carry more. Contact the Poly Pipe sales office for clarification.

S12.5 - SDR 26 Dimensions

Nom Size	O/D		Ovality	ID	Wall		WT/ MT
	Min	Max			Min	Max	
32	32.00	32.30	0.60	25.65	3.00	3.50	0.28
40	40.00	40.40	0.80	33.70	3.00	3.50	0.36
50	50.00	50.50	1.00	43.75	3.00	3.50	0.59
63	63.00	63.60	1.20	56.80	3.00	3.50	0.70
75	75.00	75.70	1.50	68.85	3.00	3.50	0.70
90	90.00	90.90	1.80	83.95	3.00	3.50	0.85
110	110.00	111.00	2.20	103.1	3.40	4.00	1.19
125	125.00	126.20	2.50	117.20	3.90	4.50	1.53
160	160.00	161.50	3.20	150.25	4.90	5.60	2.45
200	200.00	201.80	4.00	187.60	6.20	7.10	3.88
250	250.00	252.30	5.00	234.75	7.70	8.70	6.00
315	315.00	317.90	6.30	295.85	9.70	10.90	9.48

S12.5 - SDR 26 Crate Dimensions

	Length	Qty	Crate Kgs	Length	Qty	Crate Kgs
32	6 mtr	100.00	169.00	12 mtr	100.00	339.00
40	6 mtr	100.00	217.00	12 mtr	100.00	433.00
50	6 mtr	50.00	135.00	12 mtr	50.00	271.00
63	6 mtr	57.00	201.00	12 mtr	57.00	401.00
75	6 mtr	57.00	241.00	12 mtr	57.00	482.00
90	6 mtr	57.00	339.00	12 mtr	57.00	677.00
110	6 mtr	30.00	261.00	12 mtr	30.00	522.00
125	6 mtr	26.00	291.00	12 mtr	26.00	582.00
160	6 mtr	17.00	314.00	12 mtr	17.00	629.00
200	6 mtr	11.00	314.00	12 mtr	11.00	627.00
250	6 mtr	5.00	222.00	12 mtr	5.00	444.00
315	6 mtr	3.00	211.00	12 mtr	3.00	422.00

S16 - SDR 33 Dimensions

Nom Size	O/D		Ovality	ID	Wall		WT/ MT
	Min	Max			Min	Max	
32	32.00	32.30	0.60	25.65	3.00	3.50	0.28
40	40.00	40.40	0.80	33.70	3.00	3.50	0.36
50	50.00	50.50	1.00	43.75	3.00	3.50	0.59
63	63.00	63.60	1.20	56.80	3.00	3.50	0.70
75	75.00	75.70	1.50	68.85	3.00	3.50	0.70
90	90.00	90.90	1.80	83.95	3.00	3.50	0.85
110	110.00	111.00	2.20	103.1	3.40	4.00	1.19
125	125.00	126.20	2.50	117.20	3.90	4.50	1.53
160	160.00	161.50	3.20	150.25	4.90	5.60	2.45
200	200.00	201.80	4.00	187.60	6.20	7.10	3.88
250	250.00	252.30	5.00	234.75	7.70	8.70	6.00
315	315.00	317.90	6.30	295.85	9.70	10.90	9.48

S16 - SDR 33 Crate Dimensions

	Length	Qty	Crate Kgs	Length	Qty	Crate Kgs
32	6 mtr	100.00	169.00	12 mtr	100.00	339.00
40	6 mtr	100.00	217.00	12 mtr	100.00	433.00
50	6 mtr	50.00	138.00	12 mtr	50.00	275.00
63	6 mtr	57.00	201.00	12 mtr	57.00	401.00
75	6 mtr	57.00	241.00	12 mtr	57.00	482.00
90	6 mtr	57.00	291.00	12 mtr	57.00	583.00
110	6 mtr	30.00	214.00	12 mtr	30.00	428.00
125	6 mtr	26.00	239.00	12 mtr	26.00	478.00
160	6 mtr	17.00	250.00	12 mtr	17.00	501.00
200	6 mtr	11.00	256.00	12 mtr	11.00	513.00
250	6 mtr	5.00	180.00	12 mtr	5.00	360.00
315	6 mtr	3.00	171.00	12 mtr	3.00	341.00

Maximum Allowable Operating Pressure - PE100 (Black)

Temp (°C)	Design Life (yrs)	Design Factor	PN 4	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
			SDR 41	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
20	100	1.0	40	64	80	100	127	160	200	250
25	100	1.1	36	58	73	91	115	145	182	227
30	100	1.1	36	58	73	91	115	145	182	227
35	50	1.2	33	53	67	83	106	133	167	208
40	50	1.2	33	53	67	83	106	133	167	208
45	35	1.3	31	49	62	77	99	123	154	192
50	22	1.4	29	46	57	71	91	114	143	179
55	15	1.4	29	46	57	71	91	114	143	179
60	7	1.5	27	43	53	67	85	107	133	167
80	1	2.0	20	32	40	50	63	80	100	125

The design life periods may be considered to be the minimum potential service lives and represent the maximum extrapolated periods permitted by the ISO 9080:2003 extrapolation rules given the available test data.

Comparison of SDR & Pressure Ratings (PN)

SDR	41	33	26	21	17	13.6	11	9	7.4
PE80	PN 3.2	PN 4	-	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20
PE100	PN 4	-	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25

SDR: Nominal ratio of outside diameter to wall thickness.

PN: Pressure rating at 20DC (MPa multiplied by 10).

PE Classification: Long term rupture stress at 20DC (MPa multiplied by 10) to which the minimum safety factor of 1.25 is applied in order to obtain the 20DC design hoop stress.

Standard Pipe Colour Chart

Colour	Common Use
Blue	Water
Orange	Electrical Conduit
Yellow	Gas - PE100
Light Yellow	Gas - PE80
Red	Fire Service Water
Green	Imperial Rural/Raw Water
Purple	Recycled/Reclaimed Water
Grey	SewerFlex
Cream	Pressure Sewer
White	Communications Conduit

Poly Pipe aims to meet its commitment to quality through continuous improvement programs, use of latest technology, close co-operation with key suppliers, commitment to staff development and regular customer feedback.

The Poly Pipe manufacturing plant has Quality Assurance Certification to ISO 9001:2008. All Pressure Pipes, including Gas, have the WaterMark and Standards Certification.

External Agencies carry out regular audits to provide third party accreditation to the Poly Pipe Quality Management System and verify its ongoing compliance with this Standard.

POLYPIPE

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