



PE100 pipe is used widely within the landfill industry for the drainage, extraction and monitoring of methane gases and leachate liquids. PE100 is a strong, higher density material than PE80, demonstrating high resistance to rapid crack propagation as well as to long-term stress cracking. It is suitable for use in the landfill industry where exposure to chemicals within the landfill and related contaminated land is common.

PE100's physical properties make it an ideal product for landfill engineering and it is fully compatible with all metric-sized electro-fusion, spigot and butt weld fittings.

Applications

- Landfill gas extraction and control
- Leachate extraction and control

Features

- Range from 20mm to 710mm
- SDR 17 & 11
- 10 & 16 bar pressure rating
- Available in 6m & 12m lengths
- Manufactured to EN 12201-2
- Suitable for butt & electrofusion welding

Specifications

Outside Diameter [mm]	SDR 17 (PN 10)			SDR 11 (PN 16)		
	Wall Thickness [mm]	Inside Diameter [mm]	Weight [kg/m]	Wall Thickness [mm]	Inside Diameter [mm]	Weight [kg/m]
20*	-	-	-	1.9	16.2	0.118
25*	-	-	-	2.3	20.4	0.173
32	-	-	-	2.9	26.2	0.282
40	-	-	-	3.7	32.6	0.434
50	2.9	44.2	0.458	4.6	40.8	0.673
63	3.6	55.8	0.728	5.8	51.4	1.06
75	4.3	66.4	1.03	6.8	61.4	1.48
90	5.1	79.8	1.47	8.2	73.6	2.14
110	6.3	97.4	2.19	10.0	90.0	3.18

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Specifications

Outside Diameter [mm]	SDR 17 (PN 10)			SDR 11 (PN 16)		
	Wall Thickness [mm]	Inside Diameter [mm]	Weight [kg/m]	Wall Thickness [mm]	Inside Diameter [mm]	Weight [kg/m]
125	7.1	110.8	2.79	11.4	102.8	4.12
140	8.0	124.0	3.5	12.7	114.6	5.13
160	9.1	141.8	4.57	14.6	130.8	6.74
180	10.2	159.6	5.77	16.4	147.2	8.51
200	11.4	177.2	7.12	18.2	163.6	10.5
225	12.8	199.4	9.03	20.5	184.0	13.3
250	14.2	221.6	11.1	22.7	204.6	16.3
280	15.9	248.2	13.9	25.4	229.2	20.5
315	17.9	279.2	17.6	28.6	257.8	25.9
355	20.1	290.6	22.4	32.2	290.6	32.9
400	22.7	354.6	28.3	36.3	327.4	41.7

Material

Property	Standard	Unit	Value
Density	ISO 1183	g/cm	0.96
Melt Flow Index (190/5)	ISO 1133	g/10min	0.3
Tensile stress at yield	ISO 527	MPa	25
Elongation at yield	ISO 527	%	9
Elongation at break	ISO 527	%	>600
Impact strength (notched)	ISO 179	kJ/m ²	16
Modules of elasticity	ISO 527	MPa	1300