



PE100 straight pipe is used widely within the geothermal industry as part of flow and return recirculation liquid systems.

It is fully compatible with all metric-sized electro-fusion, spigot and butt weld fittings.

Applications

- Ground source heat recovery systems

Features

- Virgin PE 100 resin
- Suitable for butt & electro-fusion welding
- Standard 6 & 12 metre lengths
- Special lengths available
- 10 bar – 16 bar pressure rating
- Manufactured to EN 12201-2 & EN 13244-2

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