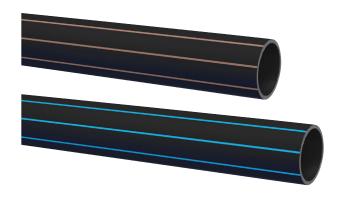
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## PE100 pressure pipes

**Technical factsheet** 



### PE100 pressure pipes



**Application** Potable water, sewer, gas and industrial Material Polyethylene **Dimensions** 32-1200mm Lengths 6, 12m and special lengths Colour Black, black with blue stripes, black with brown stripes or black with yellow stripes Standard EN 12201, EN 1555 **Approvals** Drinking water approval for Denmark (DK-VAND) and Finland (FI) NPM

PE100 pipes is a wide range of pipes made of polyethylene. The pipes are easy to handle, strong, flexible and corrosion free. Because of their flexibility, the pipes can absorb soil movements and allow small changes of direction just by bending the pipe.

The smooth inner layer of the pipe gives a small resistance of flow. PE100 pipes have a high short-term strength making them withstand pressure shocks like water hammers. The ring stiffness corresponds to SN16 for PN10 pipes and SN64 for PN16 pipes.

The PE100 pipes come in dimensions 32-1200mm, available in SDR classes 26 to 11 that corresponds to pressure classes from 6 bar to 16 bar.

PE100 pipes have excellent chemical properties: heavy metals, salts and bases do not permeate polyethylene.

- ✓ Corrosion free
- ✓ Can withstand increased short term pressure
- ✓ Good impact strength even in low temperatures
- ✓ High ductility
- ✓ Low friction factor
- ✓ Expected service life of at least 100 years

#### **Joints**

The pipes can be connected with electrofusion, butt welding and mechanical joints. With welded joints it is possible to create a system where the connection area is as strong as the pipe itself, even in pulling strength. To get a good and tight welded connection it is important to do it correct and according to jointing instructions.

System properties	Value	Unit
Min. bending radius	50 x d <sub>e</sub>	mm
Max. use temperature under pressure	+ 40	°C
Min. ambient installation temperature	- 20	°C
Min. ambient installation temperature coils	- 15*	°C
Min. ambient welding temperature	- 20	°C

<sup>\*</sup>Minimum installing temperature for coils is -15° C, but it is not recommended because it creates high forces on the coil. In cold weather it is recommended that the coil is stored in a warm place until installing.

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	<b>SDR17</b> PN10	<b>SDR11</b> PN16
OD	Wall thickness	Wall thickness
mm	mm	mm
32	2,0	3,0
40	2,4	3,7
50	3,0	4,6
63	3,8	5,8
75	4,5	6,8
90	5,4	8,2
110	6,6	10,0
125	7,4	11,4
140	8,3	12,7
160	9,5	14,6
180	10,7	16,4
200	11,9	18,2
225	13,4	20,5
250	14,8	22,7
280	16,6	25,4
315	18,7	28,6
355	21,1	32,2
400	23,7	36,3
450	26,7	40,9
500	29,7	45,5
560	33,2	50,8
630	37,4	57,2
710	42,1	64,5
800	47,4	72,6
900	53,3	81,7
1000	59,3	90,8
1200	71,1	

Table: Wall thickness PE100

