

**uponor**

# **PE80 pressure pipes**

**Technical factsheet**

## PE80 (PEM) pressure pipes



PE80 pressure pipes are produced of polyethylene, a safe and secure material for handling of potable- or sewer water. All dimensions are available in coils, making it possible to do long installations without any connections. PE80 is a very flexible plastic material, it is easy to work with and change of direction can be done without elbows. Due to this flexibility, the pipe is not sensitive to settlements and movements in the surrounding soil.

The PE80 pipe is delivered in dimensions 16-63mm, SDR11 corresponding to PN12,5 pressure class.

PE80 pipes have excellent chemical properties: heavy metals, salts and bases do not permeate polyethylene.

<b>Application</b>	Potable water, sewer
<b>Material</b>	Polyethylene
<b>Dimensions</b>	16-63mm
<b>Lengths</b>	Coils
<b>Colour</b>	Black, black with blue stripes or black with brown stripes
<b>Standard</b>	EN 12201
<b>Approvals</b>	Drinking water approval for Denmark (DK-VAND) and Finland (FI) NPM

- ✓ Flexible, not sensitive to soil movements and settlements in the ground
- ✓ Long lengths means less joints
- ✓ Corrosion free
- ✓ Durable, effectively withstands mechanical forces
- ✓ Expected service life of at least 100 years

### Joints

The most common jointing method for PE80 pipes is mechanical jointing, but electrofusion and butt welding are also possible. It is possible to weld PE80 with PE100. 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	40 x d <sub>e</sub>	mm
Max. use temperature under pressure	+ 40	°C
Min. ambient installation temperature	- 15*	°C
Min. ambient welding temperature	- 15	°C

\*Minimum installing temperature 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.

OD mm	Wall thickness mm
20	2,0
25	2,3
32	2,9
40	3,7
50	4,6
63	5,8

Table: Wall thickness PE80

