

Outer pipe diameter [mm]	14	16	16	16	16	16	17	18	20	20	20	20	20	25	25	26	26	32	32	40	40	
Pipe wall thickness [mm]	2.0	2.0	2.0	2.25	2.0	2.25	2.0	2.0	2.0	2.0	2.25	2.25	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.5	4.0
Inner pipe diameter [mm]	10.0	12.0	12.0	11.5	12.0	11.5	13.0	14.0	16.0	16.0	15.5	15.5	15.0	15.0	20.0	20.0	20.0	20.0	26.0	26.0	33.0	32.0
thickness of aluminium layer [mm]	0.18	0.15	0.20	0.20	0.40	0.40	0.20	0.25	0.25	0.40	0.25	0.40	0.25	0.40	0.35	0.50	0.35	0.50	0.40	0.50	0.50	0.50
Smallest bending radius [mm] without bending device (T = 20 °C)	70	80	80	80	80	80	85	90	100	100	100	100	100	100	250	250	260	260	---	---	---	---
Smallest bending radius [mm] with bending device (T = 20 °C)	42	48	48	48	48	48	51	54	60	60	60	60	60	60	100	100	104	104	128	128	160	160
Weight per meter [g / m]	87	100	105	113	120	144	110	125	140	155	150	165	160	175	220	240	260	280	330	350	500	550
Water content [liter /m]	0.079	0.113	0.113	0.104	0.113	0.104	0.133	0.154	0.201	0.201	0.189	0.189	0.177	0.177	0.314	0.314	0.314	0.314	0.531	0.531	0.855	0.804
Linear expansion coefficient [mm / m K]	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Thermal resistance [m ² K / W]	0.0046	0.0046	0.0045	0.0050	0.0040	0.0046	0.0045	0.0044	0.0044	0.0040	0.0050	0.0046	0.0056	0.0053	0.0054	0.0050	0.0066	0.0063	0.0065	0.0063	0.0075	0.0088
Thermal conductivity [W / m K]	0.44	0.43	0.44	0.45	0.50	0.49	0.44	0.46	0.46	0.50	0.45	0.49	0.44	0.48	0.46	0.50	0.45	0.48	0.46	0.48	0.47	0.46
Maximum operating temperature, over 50 years [°C]	70	60	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Maximum operating temperature, max. 1 year [°C]	95	80	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Emergency operating temperature, max. 100 hrs [°C]	110	95	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Maximum operating pressure, over 50 years [bar]	10	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	10	10
maximum operating pressure, max. 1 year [bar]	12	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	12	12	12
Surface roughness [mm]	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Oxygen permeability [g/m ³ d]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	