

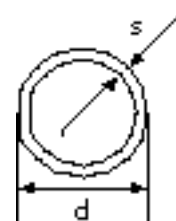
Plastic water pipes

PE 100 Pressure pipes DIN 8074-5

MRS 100

Wall thickness SDR 26

Material: Polyethelyne
 Colour: Black
 Usage: Water supply systems, drain and sewer pipes systems, etc.
 Pressure loss: See page 2.1.100-5



Part number: 2.16 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length of straight pipes [m]
50	2,0	3,02	16,62	0,314	6
63	2,5	4,75	26,42	0,494	6
75	2,9	6,57	37,61	0,675	6
90	3,5	9,51	54,11	0,978	12
110	4,2	14,28	80,75	1,430	12
125	4,8	18,49	104,23	1,840	12
140	5,4	22,83	131,10	2,320	12
160	6,2	29,96	171,10	3,040	12
180	6,9	38,04	216,42	3,790	12
200	7,7	46,52	267,64	4,690	12
225	8,6	59,12	338,49	5,890	12
250	9,6	73,23	417,65	7,300	12
280	10,7	91,34	524,41	9,100	12
315	12,1	116,06	663,26	11,600	12
355	13,6	146,89	842,90	14,600	12
400	15,3	186,07	1.070,57	18,600	12
450	17,2	236,48	1.353,96	23,500	12
500	19,1	291,46	1.672,03	28,900	12

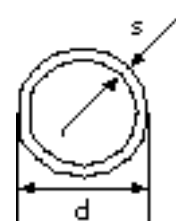
Plastic water pipes

PE 100 Pressure pipes DIN 8074-5

MRS 100

Wall thickness SDR 17

Material: Polyethelyne
 Colour: Black
 Usage: Water supply systems, drain and sewer pipes systems, etc.
 Pressure loss: See page 2.1.100-5



Part number: 2.17 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length of straight pipes [m]
90	5,4	14,35	49,27	1,46	12
110	6,6	21,44	73,59	2,17	12
125	7,4	27,34	95,38	2,76	12
140	8,3	34,34	119,60	3,46	12
160	9,5	44,92	156,15	4,52	12
180	10,7	56,90	197,55	5,71	12
200	11,9	70,32	243,84	7,05	12
225	13,4	89,08	308,53	8,93	12
250	14,8	109,36	381,52	11,00	12
280	16,6	137,36	478,39	13,70	12
315	18,7	174,07	605,24	17,40	12
355	21,1	221,33	768,46	22,10	12
400	23,7	280,18	976,46	28,00	12
450	26,7	355,07	1.235,37	35,40	12
500	29,7	437,43	1.526,07	43,80	12

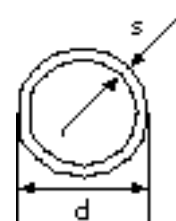
Plastic water pipes

PE 100 Pressure pipes DIN 8074-5

MRS 100

Wall thickness SDR 11

Material: Polyethelyne
 Colour: Black
 Usage: Water supply systems, drain and sewer pipes systems, etc.
 Pressure loss: See page 2.1.100-5



Part number: 2.18 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length of straight pipes [m]
90	8,2	21,07	42,54	2,12	12
110	10,0	31,42	63,62	3,14	12
125	11,4	40,68	82,03	4,08	12
140	12,7	50,79	103,15	5,08	12
160	14,6	66,69	134,37	6,67	12
180	16,4	84,29	170,18	8,42	12
200	18,2	103,95	210,21	10,40	12
225	20,5	131,70	265,90	13,10	12
250	22,7	162,10	328,78	16,20	12
280	25,4	203,16	412,59	20,30	12
315	28,6	257,33	521,98	25,60	12
355	32,2	326,54	663,26	32,50	12
400	36,3	414,76	841,87	41,30	12

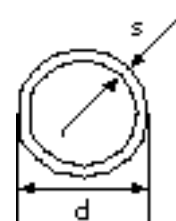
Plastic water pipes

PB - Pressure pipes DIN 16968-9

PB 125

Wall thickness SDR 17

Material: Polybutelyne
 Colour: Gray
 Usage: District heating systems, snow melting, floor heating and industrial use. Polybutelyne superiority is high temperature resistance, chemical resistance and pressure resistance.
 Pressure loss: See page 2.1.100-6



Part number: 2.33 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length [m]	Length of straight pipes [m]
40	2,4	2,83	9,73	0,285	100	
50	3,0	4,43	15,21	0,442	100	
63	3,8	7,07	24,11	0,700	100	6
75	4,5	9,97	34,21	0,982	100	6
90	5,4	14,35	49,27	1,410		12
110	6,6	21,44	73,59	2,100		12
125	7,4	27,34	95,38	2,670		12
140	8,3	34,34	119,60	3,350		12
160	9,5	44,92	156,15	4,370		12

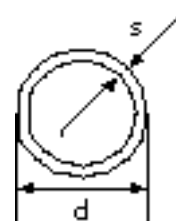
Plastic water pipes

PB - Pressure pipes DIN 16968-9

PB 125

Wall thickness SDR 11

Material: Polybutelyne
 Colour: Gray
 Usage: District heating systems, snow melting, floor heating and industrial use. Polybutelyne superiority is high temperature resistance, chemical resistance and pressure resistance.
 Pressure loss: See page 2.1.100-6



Part number: 2.34 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length [m]	Length of straight pipes [m]
16	1,5	0,68	1,33	0,070	100-200	
20	1,9	1,08	2,06	0,109	100-200	
25	2,3	1,64	3,27	0,165	100-200	6
32	2,9	2,65	5,39	0,264	100-200	6
40	3,7	4,22	8,35	0,417	100-200	6
50	4,6	6,56	13,07	0,645	100-200	6
63	5,8	10,42	20,75	1,020	50-100	6
75	6,8	14,57	29,61	1,420		6
90	8,2	21,07	42,54	2,050		12
110	10,0	31,42	63,62	3,050		12
125	11,4	40,68	82,03	3,950		12
140	12,7	50,79	103,15	4,920		12
160	14,6	66,69	134,37	6,460		12



Weight on meter is calculated according to mass density of PB materials 0,920 g/cm³
 Various lengths are available depending on individual applications.

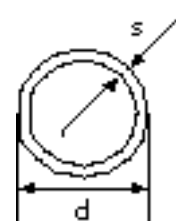
Plastic water pipes

PB - Pressure pipes DIN 16968-9

PB 125

Wall thickness SDR 9

Material: Polybutelyne
 Colour: Gray
 Usage: District heating systems, snow melting, floor heating and industrial use. Polybutelyne superiority is high temperature resistance, chemical resistance and pressure resistance.
 Pressure loss: See page 2.1.100-6



Part number: 2.35 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length [m]	Length of straigh pipes [m]
16	1,8	0,80	1,21	0,081	100-200	
20	2,3	1,28	1,86	0,128	100-200	
25	2,8	1,95	2,96	0,194	100-200	
32	3,6	3,21	4,83	0,317	100-200	6
40	4,5	5,02	7,55	0,492	100-200	6
50	5,6	7,81	11,82	0,763	100-200	6
63	7,1	12,47	18,70	1,210	50-100	6
75	8,4	17,58	26,60	1,710		6
90	10,1	25,35	38,26	2,460		12
110	12,3	37,75	57,28	3,650		12
125	14,0	48,82	73,90	4,720		12
140	15,7	61,31	92,63	5,920		12
160	17,9	79,91	121,15	7,710		12

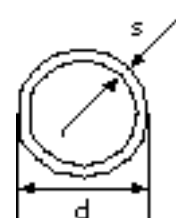
Plastic water pipes

PP - Pressure pipes DIN 8077-8

PP-R 80

Wall thickness SDR 26

Material: Polypropylene random copolymer PPR
 Colour: Gray
 Usage: District heating systems, snow melting, drain and sewer systems
 Pressure loss: See page 2.1.100-7



Part number: 2.43 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length of straight pipes [m]
50	2,0	3,02	16,62	0,301	6
63	2,5	4,75	26,42	0,474	6
75	2,9	6,57	37,61	0,647	6
90	3,5	9,51	54,11	0,936	12
110	4,2	14,28	80,75	1,370	12
125	4,8	18,49	104,23	1,760	12
140	5,4	22,83	131,10	2,230	12
160	6,2	29,96	171,10	2,920	12
180	6,9	38,04	216,42	3,630	12
200	7,7	46,52	267,64	4,500	12
225	8,6	59,12	338,49	5,650	12
250	9,6	73,23	417,65	6,990	12
280	10,7	91,34	524,41	8,720	12
315	12,1	116,06	663,26	11,100	12
355	13,6	146,89	842,90	14,000	12
400	15,3	186,07	1.070,57	17,800	12
450	17,2	236,48	1.353,96	22,500	12
500	19,1	291,46	1.672,03	27,700	12

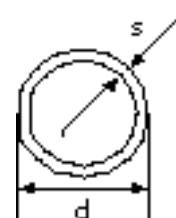
Plastic water pipes

PP - Pressure pipes DIN 8077-8

PP-R 80

Wall thickness SDR 17,6

Material: Polypropylene random copolymer PPr
 Colour: Gray
 Usage: District heating systems, snow melting, drain and sewer systems
 Pressure loss: See page 2.1.100-7



Part number: 2.44 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length [m]	Length of straight pipes [m]
40	2,3	2,72	9,84	0,273	100-200	6
50	2,9	4,29	15,34	0,422	100-200	6
63	3,6	6,72	24,45	0,659	50-200	6
75	4,3	9,55	34,63	0,935	50-200	6
90	5,1	13,60	50,01	1,330		12
110	6,3	20,52	74,51	1,990		12
125	7,1	26,30	96,42	2,550		12
140	8,0	33,18	120,76	3,200		12
160	9,1	43,14	157,92	4,170		12
180	10,2	54,41	200,06	5,250		12
200	11,4	67,55	246,61	6,500		12
225	12,8	85,33	312,28	8,190		12
250	14,2	105,19	385,68	10,100		12
280	15,9	131,92	483,83	12,600		12
315	17,9	167,07	612,24	16,000		12
355	20,1	211,48	778,32	20,300		12
400	22,7	269,07	987,57	25,700		12
450	25,5	340,07	1.250,36	32,500		12
500	28,4	419,37	1.544,12	40,200		12

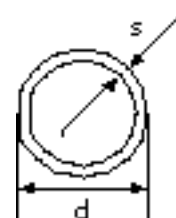
Plastic water pipes

PP - Pressure pipes DIN 8077-8

PP-R 80

Wall thickness SDR 11

Material: Polypropylene random copolymer PPr
 Colour: Gray
 Usage: District heating systems, snow melting, drain and sewer systems
 Pressure loss: See page 2.1.100-7



Part number: 2.45 + nominal diameter

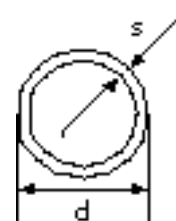
Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length [m]	Length of straight pipes [m]
20	2,0	1,08	2,06	0,107	100-200	
25	2,3	1,64	3,27	0,164	100-200	
32	2,9	2,73	5,31	0,261	100-200	6
40	3,7	4,22	8,35	0,412	100-200	6
50	4,6	6,56	13,07	0,638	100-200	6
63	5,8	10,42	20,75	1,010	50-100	6
75	6,8	14,76	29,42	1,410	50-100	6
90	8,2	21,07	42,54	2,030		12
110	10,0	31,42	63,62	3,010		12
125	11,4	40,68	82,03	3,910		12
140	12,7	51,15	102,79	4,870		12
160	14,6	66,69	134,37	6,380		12
180	16,4	84,29	170,18	8,070		12
200	18,2	103,95	210,21	9,950		12
225	20,5	131,70	265,90	12,600		12
250	22,7	162,74	328,13	15,500		12
280	25,4	203,88	411,87	19,400		12
315	28,6	258,14	521,17	24,600		12
355	32,2	327,45	662,34	31,200		12
400	36,3	415,79	840,85	39,600		12
450	40,9	526,81	1.063,62	50,100		12

Plastic water pipes

PEM - Pressure pipes

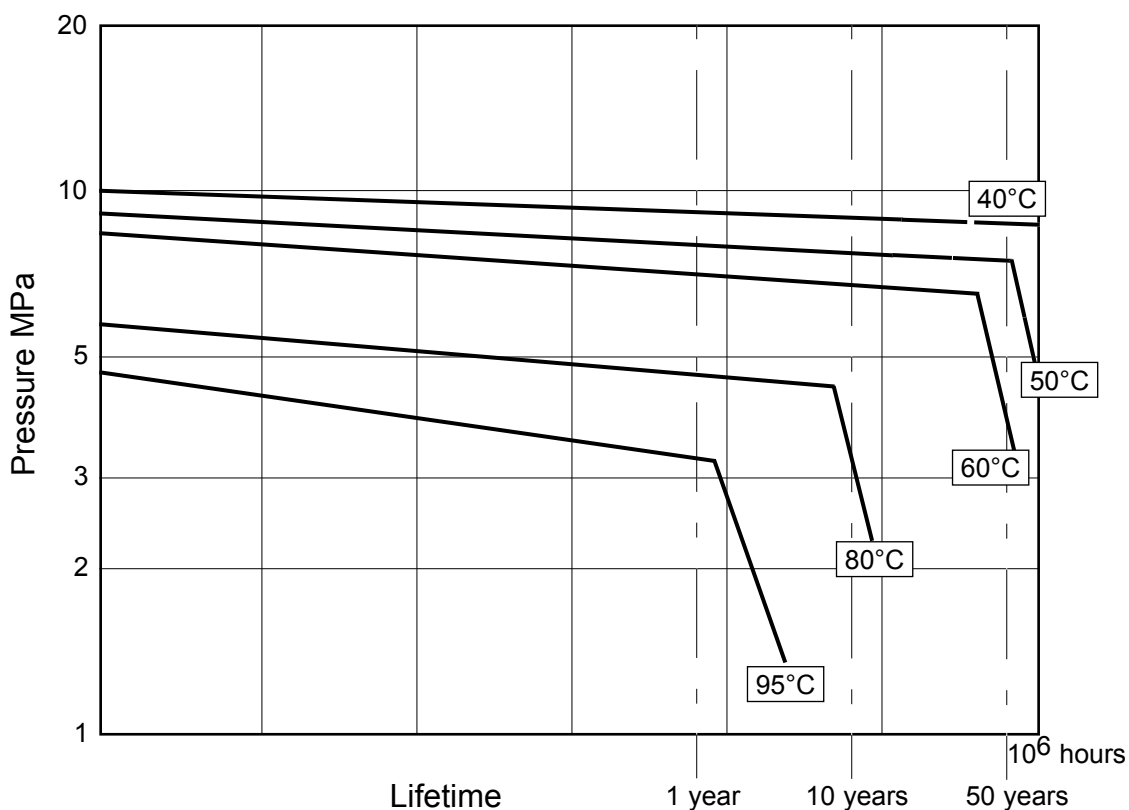
Wall thickness SDR 11

Material: Polyethelyne, medium density
 Colour: Black
 Usage: Snow melting systems
 Lifetime: See table below
 (lasting at least 50 years with 5 MPa pressure and 50°C).



Part number: 2.24 + nominal diameter

Nominal diameter d [mm]	Wall thickness s [mm]	Area of wall thickness [cm ²]	Inside area [cm ²]	Weight [kg/m]	Length [m]	Length of straigh pipes [m]
20	2,0	1,13	2,01	0,118	200	
25	2,3	1,64	3,27	0,171	200	
63	5,8	10,42	20,75	1,050	100-200	6-12
90	8,2	21,07	42,54	2,120		6-12

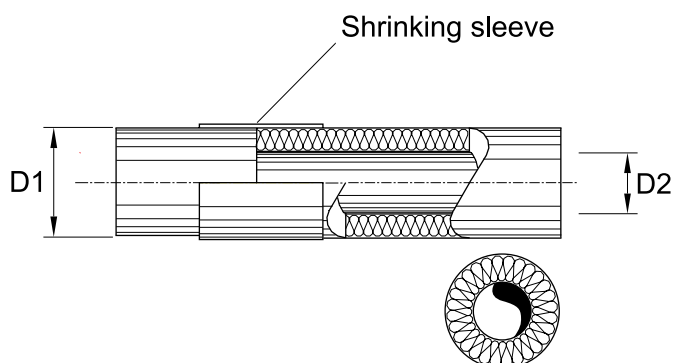


Pre-insulated pipes

Insulation casings PUR

SET Insulation casing is a closed insulation with PE outer casing and inner casing made from resiceled PVC plastic materials.

Insulation is PUR foam > 50 kg m³.



Part number: 1.190 + nominal diam. of casing

Nominal diameter D1 [mm]	Inside diameter D2 [mm]	Outside diameter D1 [mm]	Length L [m]	Diameter of pipe D [mm]	Weight [kg]
90	28	90	5,6	20-25	6,2
110	45	110	5,6	32-40	10,5
125	70	125	5,6	50-63	14,5
140	84	140	5,6	75	17,0

Shrinking sleeves on joints

Part number: 1.522 + nominal

Nominal [mm]	Length [mm]	Inside diam. [mm]	Weight [kg]
90	200	103	0,20
110	200	125	0,26
125	200	140	0,28
140	200	156	0,33