

PE100 / PE100-RC Polyethylene pipe availability

Metric Sizes DIN 8074		PE100 / PE100-RC						PE100 FM	PE-HD-el: Electro Conductive			
Size	Series SDR Working Pressure	Ventilation -	S-20 SDR41 PN4	S-16 SDR33 PN5	S-12.5 SDR26 PN6.3	S-8.3 SDR17 PN10	S-5 SDR11 PN16	S-5 SDR11 PN12	S-16 SDR33 PN3.2	S-8.3 SDR17.6 PN6	S-5 SDR11 PN10	
20	O.D. (mm) Wall (mm) Weight/m (kg)						20 2.0 0.12					
25	O.D. (mm) Wall (mm) Weight/m (kg)						25 2.3 0.17					
32	O.D. (mm) Wall (mm) Weight/m (kg)					32 2.0 0.20	32 3.0 0.28				32 3.0 0.29	
40	O.D. (mm) Wall (mm) Weight/m (kg)					40 2.4 0.30	40 3.7 0.43				40 3.7 0.45	
50	O.D. (mm) Wall (mm) Weight/m (kg)					50 3.0 0.46	50 4.6 0.67				50 4.6 0.70	
63	O.D. (mm) Wall (mm) Weight/m (kg)					63 3.8 0.73	63 5.8 1.06	63 5.8 1.05			63 5.8 1.11	
75	O.D. (mm) Wall (mm) Weight/m (kg)		75 1.9 0.46	75 2.3 0.55		75 4.5 1.03	75 6.8 1.48	75 6.8 1.47			75 6.8 1.54	
90	O.D. (mm) Wall (mm) Weight/m (kg)		90 2.2 0.63	90 2.8 0.80	90 3.5 0.99	90 5.4 1.47	90 8.2 2.14	90 8.2 2.11		90 5.1 1.46	90 8.2 2.23	
110	O.D. (mm) Wall (mm) Weight/m (kg)		110 2.7 0.95	110 3.4 1.17	110 4.2 1.45	110 6.6 2.19	110 10.0 3.18	110 10.0 3.14	110 3.4 1.24	110 6.3 2.19	110 10.0 3.31	
125	O.D. (mm) Wall (mm) Weight/m (kg)		125 3.1 1.23	125 3.9 1.53	125 4.8 1.86	125 7.4 2.79	125 11.4 4.12	125 11.4 4.06	125 3.9 1.59	125 7.1 2.80	125 11.4 4.29	
140	O.D. (mm) Wall (mm) Weight/m (kg)		140 3.5 1.56	140 4.3 1.90	140 5.4 2.35	140 8.3 3.50	140 12.7 5.13	140 12.7 5.08				
160	O.D. (mm) Wall (mm) Weight/m (kg)		160 4.0 2.02	160 4.9 2.45	160 6.2 3.08	160 9.5 4.57	160 14.6 6.74	160 14.6 6.67	160 4.9 2.55	160 9.1 4.58	160 14.6 7.02	
180	O.D. (mm) Wall (mm) Weight/m (kg)		180 4.4 2.46	180 5.5 3.10	180 6.9 3.83	180 10.7 5.77	180 16.4 8.51	180 16.4 8.40	180 5.5 3.23	180 10.2 5.77	180 16.4 8.87	
200	O.D. (mm) Wall (mm) Weight/m (kg)		200 4.9 3.08	200 6.2 3.85	200 7.7 4.74	200 11.9 7.12	200 18.2 10.50	200 18.2 10.40	200 6.2 4.64	200 11.4 7.14	200 18.2 10.90	
225	O.D. (mm) Wall (mm) Weight/m (kg)		225 5.5 3.90	225 6.9 4.82	225 8.6 5.96	225 13.4 9.03	225 20.5 13.30	225 20.5 13.10	225 6.9 5.03	225 12.8 9.00	225 20.5 13.80	
250	O.D. (mm) Wall (mm) Weight/m (kg)		250 6.2 4.84	250 7.7 5.98	250 9.6 7.38	250 14.8 11.10	250 22.7 16.30	250 22.7 16.20	250 7.7 6.23	250 14.2 11.10	250 22.7 17.00	
280	O.D. (mm) Wall (mm) Weight/m (kg)		280 6.9 6.04	280 8.6 7.47	280 10.7 9.20	280 16.6 13.90	280 25.4 20.50	280 25.4 20.20				
315	O.D. (mm) Wall (mm) Weight/m (kg)		315 7.7 7.59	315 9.7 9.47	315 12.1 11.70	315 18.7 17.60	315 28.6 25.90	315 28.6 25.60	315 9.7 9.86	315 17.9 17.60	315 28.6 27.00	
355	O.D. (mm) Wall (mm) Weight/m (kg)		355 8.7 9.65	355 10.9 12.00	355 13.6 14.80	355 21.1 22.40	355 32.2 32.90	355 32.2 32.50				
400	O.D. (mm) Wall (mm) Weight/m (kg)	400 8.0 10.04	400 9.8 12.20	400 12.3 15.20	400 15.3 18.80	400 23.7 28.30	400 36.3 41.70	400 36.3 41.20	400 12.3 15.90			
450	O.D. (mm) Wall (mm) Weight/m (kg)	450 8.0 11.30	450 11.0 15.40	450 13.8 19.20	450 17.2 23.70	*450 26.7 35.80	*450 40.9 52.80					
500	O.D. (mm) Wall (mm) Weight/m (kg)	500 8.0 12.60	500 12.3 19.10	500 15.3 23.60	500 19.1 29.20	*500 29.7 44.20	*500 45.4 65.20					
560	O.D. (mm) Wall (mm) Weight/m (kg)	560 10.0 17.60	560 13.7 23.90	560 17.2 29.70	560 21.4 36.60	*560 33.2 55.40	*560 50.8 81.70					
630	O.D. (mm) Wall (mm) Weight/m (kg)	630 10.0 19.80	630 15.4 30.10	630 19.3 37.40	630 24.1 46.40	*630 37.4 70.20	*630 57.2 103.00					
710	O.D. (mm) Wall (mm) Weight/m (kg)	710 12.0 26.70	710 17.4 38.30	710 21.8 47.70	710 27.2 59.00	*710 42.1 89.00	*710 64.5 131.00					
800	O.D. (mm) Wall (mm) Weight/m (kg)	800 12.0 30.20	800 19.6 48.70	800 24.5 60.40	800 30.6 74.70	*800 47.4 113.00	*800 72.6 167.00					
900	O.D. (mm) Wall (mm) Weight/m (kg)	900 15.0 42.30	900 22.0 61.30	900 27.6 76.40	900 34.4 94.40	*900 53.3 143.00	*900 81.7 211.00					
1000	O.D. (mm) Wall (mm) Weight/m (kg)	1000 15.0 47.00	1000 24.5 75.90	1000 30.6 94.10	1000 38.2 117.00	*1000 59.3 176.00	*1000 90.8 260.00					
1200	O.D. (mm) Wall (mm) Weight/m (kg)	1200 18.0 67.70	1200 29.4 109.00	1200 36.7 135.00	1200 45.9 168.00	*1200 71.1 254.00	*1200 108.90 375.00					
1400	O.D. (mm) Wall (mm) Weight/m (kg)	1400 20.0 87.70	1400 34.3 148.00	1400 42.9 184.00	1400 53.5 228.00	*1400 83.0 345.00	*1400 127.00 510.00					
1600	O.D. (mm) Wall (mm) Weight/m (kg)	1600 39.2 194.00	1600 49.0 241.00	1600 61.2 298.00	1600 76.4 359.00	*1600 94.8 451.00	*1600 145.20 666.00					
1800	O.D. (mm) Wall (mm) Weight/m (kg)	1800 44.0 245.00	1800 55.1 305.00	1800 68.8 377.00	1800 88.8 471.00	*1800 106.6 571.00						
2000	O.D. (mm) Wall (mm) Weight/m (kg)	2000 48.9 302.00	2000 61.2 376.00	2000 76.4 465.00	2000 94.4 559.00	*2000 118.4 704.00						
2250	O.D. (mm) Wall (mm) Weight/m (kg)	2250 55.0 382.00	2250 70.0 476.00	2250 86.0 589.00	2250 103.3 704.00	*2250 133.3 892.00						

* PE100-RC



PE100 / PE100-RC Pipe

PN10/S-8.3/SDR17.6			PN16/S-5/SDR11	
Size	Code	Price/m	Code	Price/m
20	-	-	25 705 0020 11	1.35
25	-	-	25 705 0025 11	1.86
32	25 705 0032 17	1.69	25 705 0032 11	2.59
40	25 705 0040 17	2.40	25 705 0040 11	3.59
50	25 705 0050 17	3.80	25 705 0050 11	5.48
63	25 705 0063 17	5.87	25 705 0063 11	8.59
75	25 705 0075 17	8.26	25 705 0075 11	11.95
90	25 705 0090 17	11.95	25 705 0090 11	17.21
110	25 705 0110 17	17.55	25 705 0110 11	25.70
125	25 705 0125 17	22.52	25 705 0125 11	33.08
140	25 705 0140 17	28.10	25 705 0140 11	41.43
160	25 705 0160 17	36.86	25 705 0160 11	54.16
180	25 705 0180 17	46.43	25 705 0180 11	68.32
200	25 705 0200 17	57.35	25 705 0200 11	84.67
225	25 705 0225 17	72.69	25 705 0225 11	106.55
250	25 705 0250 17	88.65	25 705 0250 11	131.66
280	25 705 0280 17	111.34	25 705 0280 11	164.12
315	25 705 0315 17	141.40	25 705 0315 11	208.16
355	25 705 0355 17	179.68	25 705 0355 11	264.90
400	25 705 0400 17	228.06	25 705 0400 11	335.62
450*	70 705 0450 17	312.70	70 705 0450 11	462.12
500*	70 705 0500 17	387.40	70 705 0500 11	569.67
560*	70 705 0560 17	484.02	70 705 0560 11	714.08
630*	70 705 0630 17	613.48	70 705 0630 11	901.27
710*	70 705 0710 17	776.81	70 705 0710 11	1157.36
800*	70 705 0800 17	987.95	70 705 0800 11	1463.36
900*	70 705 0900 17	1246.04	70 705 0900 11	2028.51
1000*	70 705 1000 17	1545.72	70 705 1000 11	2587.39

Standard length 5m

* PE100-RC

For pricing on larger diameter pipe please contact our sales team.

Please note that a transportation surcharge may be applied on pipe diameters 250mm or larger - please enquire for details.

Pipework Support

Polyethylene pipework requires more support than for metallic systems. As working temperature increases, the distance between supports is reduced.

PN10 Pipe Size	Support Centres/m		
	20°C	40°C	60°C
16	0.5	0.5	0.4
20	0.6	0.5	0.4
25	0.7	0.6	0.5
32	0.8	0.7	0.6
40	0.9	0.8	0.7
50	1.0	0.9	0.8
63	1.2	1.1	0.9
75	1.4	1.2	1.0
90	1.5	1.4	1.2
110	1.7	1.5	1.3
125	1.8	1.6	1.4
140	1.9	1.8	1.5
160	2.1	1.9	1.6
180	2.2	2.0	1.8
200	2.3	2.1	1.9
225	2.5	2.3	2.1
250	2.6	2.4	2.1
280	2.8	2.6	2.2
315	2.9	2.7	2.4
355	3.1	2.9	2.6
400	3.3	3.1	2.7



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Non Standard Lengths

Depending on the quantity and lead time requirements, PE pipes can be produced in lengths up to 12 metres. Please enquire for details.



Electrically Conductive PE

A range of PE80 pipes and fittings designed for the safe discharge of static electricity in critical environments. Please refer to the separate pages at the end of the Polyethylene section.



PE100-RC

The Agruline range of PE now includes PE100-RC which has exceptional resistance against slow crack growth.



Agru PE 100

Can be supplied with FM Approval for applications within the fire protection industry. Please refer to the separate pages at the end of the Polyethylene section

Temperature De-Rating Factors

Pressure ratings for Polyethylene pipework systems are always quoted at 20°C. As the working temperature increases, the maximum working pressure decreases by the factor indicated.

Working Temperature (°C)	Pressure De-Rating Factor
20	1.00
30	0.77
40	0.53
50	0.36

This data is provided for guidance only. For specific projects please contact our technical department