

polypropylene pipe availability - PP-H

Metric Sizes DIN 8077/8078								
Size	Series SDR Working Pressure	Ventilation -	S-20 SDR41 PN2.5	S-16 SDR33 PN3.2	S-12.5 SDR26 PN4	S-8.3 SDR17.6 PN6	S-5 SDR11 PN10	S-3.2 SDR7.4 PN16
10	O.D. (mm)							10
	Wall (mm)							1.8
	Weight/m (kg)							0.05
12	O.D. (mm)							12
	Wall (mm)							1.8
	Weight/m (kg)							0.06
16	O.D. (mm)						16	16
	Wall (mm)						1.8	2.2
	Weight/m (kg)						0.08	0.09
20	O.D. (mm)					20	20	20
	Wall (mm)					1.8	2.5	2.8
	Weight/m (kg)					0.10	0.14	0.15
25	O.D. (mm)					25	25	25
	Wall (mm)					1.8	2.7	3.5
	Weight/m (kg)					1.13	0.16	0.23
32	O.D. (mm)					32	32	32
	Wall (mm)					1.9	2.9	4.4
	Weight/m (kg)					0.17	0.26	0.37
40	O.D. (mm)				40	40	40	40
	Wall (mm)				1.8	2.3	3.7	5.5
	Weight/m (kg)				0.22	0.27	0.41	0.58
50	O.D. (mm)			50	50	50	50	50
	Wall (mm)			1.8	2.0	2.9	4.6	6.9
	Weight/m (kg)			0.27	0.30	0.42	0.64	0.90
63	O.D. (mm)		63	63	63	63	63	63
	Wall (mm)		1.8	2.0	2.5	3.6	5.8	8.6
	Weight/m (kg)		0.35	0.38	0.47	0.66	1.01	1.41
75	O.D. (mm)		75	75	75	75	75	75
	Wall (mm)		1.9	2.3	2.9	4.3	6.8	10.3
	Weight/m (kg)		0.44	0.52	0.65	0.93	1.40	2.00
90	O.D. (mm)		90	90	90	90	90	90
	Wall (mm)		2.2	2.8	3.5	5.1	8.2	12.3
	Weight/m (kg)		0.60	0.76	0.94	1.32	2.02	2.86
110	O.D. (mm)		110	110	110	110	110	110
	Wall (mm)		2.7	3.4	4.2	6.3	10.0	15.1
	Weight/m (kg)		0.90	1.11	1.36	1.98	3.01	4.29
125	O.D. (mm)		125	125	125	125	125	125
	Wall (mm)		3.1	3.9	4.8	7.1	11.4	17.1
	Weight/m (kg)		1.17	1.45	1.76	2.54	3.89	5.52
140	O.D. (mm)		140	140	140	140	140	140
	Wall (mm)		3.5	4.3	5.4	8.0	12.7	19.2
	Weight/m (kg)		1.48	1.78	2.21	3.20	4.87	6.93
160	O.D. (mm)		160	160	160	160	160	160
	Wall (mm)		4.0	4.9	6.2	9.1	14.6	21.9
	Weight/m (kg)		1.91	2.32	2.89	4.15	6.38	9.04
180	O.D. (mm)		180	180	180	180	180	180
	Wall (mm)		4.4	5.5	6.9	10.2	16.4	24.6
	Weight/m (kg)		2.36	2.94	3.63	5.22	6.05	11.40
200	O.D. (mm)		200	200	200	200	200	200
	Wall (mm)		4.9	6.2	7.7	11.4	18.2	27.4
	Weight/m (kg)		2.92	3.65	4.50	6.47	9.92	14.10
225	O.D. (mm)		225	225	225	225	225	225
	Wall (mm)		5.5	6.9	8.6	12.8	20.5	30.8
	Weight/m (kg)		3.70	4.57	5.65	8.19	12.60	17.90
250	O.D. (mm)		250	250	250	250	250	250
	Wall (mm)		6.2	7.7	9.6	14.2	22.7	34.4
	Weight/m (kg)		4.59	5.67	6.99	10.10	15.50	23.0
280	O.D. (mm)		280	280	280	280	280	280
	Wall (mm)		6.9	8.6	10.7	15.9	25.4	38.6
	Weight/m (kg)		5.73	7.09	8.72	12.60	19.40	28.8
315	O.D. (mm)		315	315	315	315	315	315
	Wall (mm)		7.7	9.7	12.1	17.9	28.6	43.7
	Weight/m (kg)		7.19	8.97	11.10	16.00	24.60	36.9
355	O.D. (mm)		355	355	355	355	355	355
	Wall (mm)		8.7	10.9	13.6	20.1	32.2	49.2
	Weight/m (kg)		9.14	11.30	14.00	20.20	31.10	46.6
400	O.D. (mm)	400	400	400	400	400	400	400
	Wall (mm)	6.0	9.8	12.3	15.3	22.7	36.3	54.7
	Weight/m (kg)	7.20	11.60	14.40	17.70	25.70	39.50	58.8
450	O.D. (mm)	450	450	450	450	450	450	450
	Wall (mm)	6.0	11.0	13.8	17.2	25.5	40.9	61.3
	Weight/m (kg)	8.10	14.60	18.20	22.40	32.50	50.10	74.1
500	O.D. (mm)	500	500	500	500	500	500	500
	Wall (mm)	8.0	12.3	15.3	19.1	28.3	45.4	68.3
	Weight/m (kg)	11.90	18.10	22.30	27.60	40.10	61.70	91.3
560	O.D. (mm)	560	560	560	560	560	560	560
	Wall (mm)	10.0	13.7	17.2	21.4	31.7	50.0	74.3
	Weight/m (kg)	13.41	22.60	28.10	34.60	50.30	75.1	110.8
630	O.D. (mm)	630	630	630	630	630	630	630
	Wall (mm)	10.0	15.4	19.3	24.1	35.7	54.3	80.3
	Weight/m (kg)	18.80	28.50	35.50	43.90	63.70	94.3	139.0
710	O.D. (mm)	710	710	710	710	710	710	710
	Wall (mm)	12.0	17.4	21.8	27.2	40.2	60.3	88.7
	Weight/m (kg)	25.30	36.30	45.20	55.80	80.70	120.0	176.0
800	O.D. (mm)	800	800	800	800	800	800	800
	Wall (mm)	12.0	19.6	24.5	30.6	45.0	66.7	98.7
	Weight/m (kg)	28.60	46.10	57.20	70.80	101.0	150.0	222.0
900	O.D. (mm)	900	900	900	900	900	900	900
	Wall (mm)	15.0	22.0	27.6	34.4	50.0	73.3	109.0
	Weight/m (kg)	40.10	58.10	72.50	89.40	127.0	188.0	278.0
1000	O.D. (mm)	1000	1000	1000	1000	1000	1000	1000
	Wall (mm)	15.0	24.5	30.6	38.2	54.0	79.0	117.0
	Weight/m (kg)	44.60	72.00	89.20	110.00	157.0	231.0	341.0
1200	O.D. (mm)	1200	1200	1200	1200	1200	1200	1200
	Wall (mm)	18.0	29.4	36.7	45.6	65.0	94.0	139.0
	Weight/m (kg)	64.10	103.00	128.00	157.00	225.0	333.0	493.0
1400	O.D. (mm)	1400	1400	1400	1400	1400	1400	1400
	Wall (mm)	21.0	34.3	42.6	52.5	74.0	107.0	158.0
	Weight/m (kg)	83.20	141.00	176.00	217.00	307.0	451.0	666.0

polypropylene pipe availability - PP-R and special grades

Metric Sizes DIN 8077/8078		PP-R	PPs: Flame Retardent				PPs-el: Flame Retardent Electric Conductive			
Size	Series SDR Working Pressure	S-5 SDR11 PN10	Ventilation -	S-20 SDR41 PN2.5	S-16 SDR33 PN3.2	S-5 SDR11 PN10	Ventilation -	S-16 SDR33 PN3.2	S-8.3 SDR17.6 PN6	S-5 SDR11 PN10
20	O.D. (mm)	20				20				
	Wall (mm)	2.5				2.5				
	Weight/m (kg)	0.14				0.14				
25	O.D. (mm)	25				25				
	Wall (mm)	2.7				2.7				
	Weight/m (kg)	0.19				0.19				
32	O.D. (mm)	32				32				32
	Wall (mm)	2.9				2.9				2.9
	Weight/m (kg)	0.26				0.27				0.32
40	O.D. (mm)	40				40				
	Wall (mm)	3.7				3.7				
	Weight/m (kg)	0.41				0.42				
50	O.D. (mm)	50				50				50
	Wall (mm)	4.6				4.6				4.6
	Weight/m (kg)	0.64				0.65				0.79
63	O.D. (mm)	63			63	63				63
	Wall (mm)	5.8			2.0	5.8				5.8
	Weight/m (kg)	1.01			0.39	1.03				1.20
75	O.D. (mm)	75		75		75				75
	Wall (mm)	6.8		1.9		6.8				6.8
	Weight/m (kg)	1.40		0.45		1.44				1.70
90	O.D. (mm)	90		90	90	90		90		90
	Wall (mm)	8.2		2.2	2.8	8.2		2.8		8.2
	Weight/m (kg)	2.02		0.62	0.78	2.08		0.93		2.50
110	O.D. (mm)	110		110	110	110	110	110	110	110
	Wall (mm)	10.0		2.7	3.4	10.0	3.0	3.4	6.3	10
	Weight/m (kg)	3.01		0.92	1.14	3.09	1.24	1.40	2.40	3.31
125	O.D. (mm)	125		125						
	Wall (mm)	11.4		3.1						
	Weight/m (kg)	3.89		1.20						
140	O.D. (mm)	140	140			140				
	Wall (mm)	12.7	3.0			12.7				
	Weight/m (kg)	4.87	1.32			4.99				
160	O.D. (mm)	160	160	160	160	160	160	160	160	
	Wall (mm)	14.6	3.0	4.0	4.9	14.6	3.0	4.9	9.1	
	Weight/m (kg)	6.38	1.53	1.97	2.38	6.55	1.82	2.90	5.10	
180	O.D. (mm)	180	180			180				
	Wall (mm)	16.4	3.0			16.4	3.0			
	Weight/m (kg)	8.05	1.71			8.05	2.05			
200	O.D. (mm)	200	200	200	200	200	200	200	200	
	Wall (mm)	18.2	3.0	4.9	6.2	18.2	3.0	6.2	11.4	
	Weight/m (kg)	9.92	1.90	3.00	3.75	9.92	2.28	4.50	8.00	
225	O.D. (mm)	225	225		225	225	225	225		
	Wall (mm)	20.5	3.5		6.9	20.5	3.5	6.9		
	Weight/m (kg)	12.60	2.47		4.69	12.60	2.62	5.86		
250	O.D. (mm)	250	250	250	250	250	250			
	Wall (mm)	22.7	3.5	6.2	7.7	22.7	3.5			
	Weight/m (kg)	15.50	2.75	4.72	5.82	15.50	3.50			
280	O.D. (mm)	280	280			280				
	Wall (mm)	25.4	4.0			25.4	4.0			
	Weight/m (kg)	19.40	3.48			19.40	4.00			
315	O.D. (mm)	315	315		315	315	315			
	Wall (mm)	28.6	5.0		9.7	28.6	5.0			
	Weight/m (kg)	24.60	4.91		9.21	24.60	5.80			
355	O.D. (mm)		355		355	355	355			
	Wall (mm)		5.0		10.9	355	5.0			
	Weight/m (kg)		5.54		11.60	355	6.60			
400	O.D. (mm)		400	400		400	400			
	Wall (mm)		6.0	9.8		400	6.0			
	Weight/m (kg)		7.39	11.88		400	7.40			
450	O.D. (mm)		450	450						
	Wall (mm)		6.0	11.0						
	Weight/m (kg)		8.33	14.99						

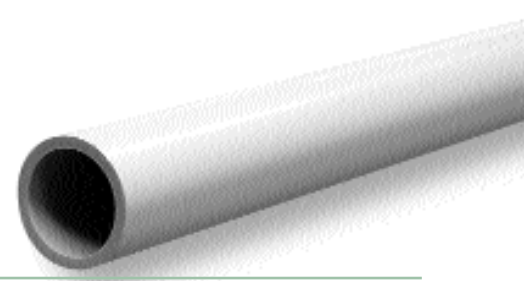


Temperature De-Rating Factors

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

* For continuous use at these temperatures, consult our Customer Services Department

Working Temperature (°C)	Pressure De-Rating Factor
20	1.00
30	1.00
40	0.82
50	0.66
60	0.50
70	0.36
80	0.25
90*	0.13
100*	0.05



PP-H Homopolymer Pipe

Ventilation				PN2.5/S-20/SDR41		PN3.2/S-16/SDR33		PN4/S-12.5/SDR26	
Size	Wall	Code	Price/m	Code	Price/m	Code	Price/m	Code	Price/m
12		-	-	-	-	-	-	-	-
16		-	-	-	-	-	-	-	-
20		-	-	-	-	-	-	-	-
25		-	-	-	-	-	-	-	-
32		-	-	-	-	-	-	-	-
40		-	-	-	-	-	-	-	-
50	3.0	12 705 0050 00	on application	-	-	12 705 0050 33	2.37	12 705 0040 26	1.80
63	3.0	12 705 0063 00	on application	12 705 0063 41	2.86	12 705 0063 33	3.28	12 705 0050 26	2.45
75	3.0	12 705 0075 00	on application	12 705 0075 41	3.58	12 705 0075 33	4.46	12 705 0063 26	3.85
90	3.0	12 705 0090 00	on application	12 705 0090 41	4.98	12 705 0090 33	6.47	12 705 0075 26	5.23
110	3.0	12 705 0110 00	on application	12 705 0110 41	7.29	12 705 0110 33	9.47	12 705 0090 26	7.62
125	3.0	12 705 0125 00	on application	12 705 0125 41	9.75	12 705 0125 33	12.40	12 705 0110 26	11.07
140	3.0	12 705 0140 00	on application	12 705 0140 41	12.20	12 705 0140 33	15.17	12 705 0125 26	14.31
160	3.0	12 705 0160 00	on application	12 705 0160 41	15.37	12 705 0160 33	19.78	12 705 0140 26	17.89
180	3.0	12 705 0180 00	on application	12 705 0180 41	19.49	12 705 0180 33	25.05	12 705 0160 26	23.46
200	3.0	12 705 0200 00	16.96	12 705 0200 41	23.59	12 705 0200 33	31.08	12 705 0180 26	29.43
225	3.5	12 705 0225 00	on application	12 705 0225 41	29.95	12 705 0225 33	38.84	12 705 0200 26	36.46
250	3.5	12 705 0250 00	24.65	12 705 0250 41	41.79	12 705 0250 33	48.30	12 705 0225 26	45.75
280	4.0	12 705 0280 00	on application	12 705 0280 41	50.11	12 705 0280 33	65.43	12 705 0250 26	56.61
315	5.0	12 705 0315 00	43.88	12 705 0315 41	63.36	12 705 0315 33	82.80	12 705 0280 26	76.62
355	6.0	12 705 0355 00	53.16	12 705 0355 41	84.18	12 705 0355 33	109.81	12 705 0315 26	97.56
400	6.0	12 705 0400 00	66.68	12 705 0400 41	107.36	12 705 0400 33	139.88	12 705 0355 26	129.51
450	6.0	12 705 0450 00	88.42	12 705 0450 41	160.39	12 705 0450 33	208.08	12 705 0400 26	163.72
500	8.0	12 705 0500 00	129.51	12 705 0500 41	196.18	12 705 0500 33	254.69	12 705 0450 26	243.88
560	10.0	12 705 0560 00	180.94	12 705 0560 41	245.87	12 705 0560 33	321.50	12 705 0500 26	300.24
630	10.0	12 705 0630 00	204.80	12 705 0630 41	311.48	12 705 0630 33	405.70	12 705 0560 26	376.43
710	12.0	12 705 0710 00	275.70	12 705 0710 41	396.33	12 705 0710 33	516.35	12 705 0630 26	477.84
800	12.0	12 705 0800 00	302.97	12 705 0800 41	501.71	12 705 0800 33	653.44	12 705 0710 26	607.07
900	15.0	12 705 0900 00	461.28	12 705 0900 41	668.03	12 705 0900 33	875.41	12 705 0800 26	770.11
1000	15.0	12 705 1000 00	512.96	12 705 1000 41	824.46	12 705 1000 33	1077.22	12 705 0900 26	1028.58
1200	18.0	12 705 1200 00	778.05	12 705 1200 41	1252.58	12 705 1200 33	1629.75	12 705 1000 26	1265.84
1400	20.0	12 705 1400 00	1057.73	12 705 1400 41	1792.06				

Standard length 5m

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

Electrofusion Coupling



Manufactured from PP-H (Homopolymer) material

PN10

Size	Code	Price
20	11 375 0020 11	10.08
25	11 375 0025 11	11.48
32	11 375 0032 11	12.40
40	11 375 0040 11	13.01
50	11 375 0050 11	20.19
63	11 375 0063 11	21.16
75	11 375 0075 11	29.65
90	11 375 0090 11	39.68
110	11 375 0110 11	48.30
125	11 375 0125 11	68.34
140	11 375 0140 11	77.24
160	11 375 0160 11	88.52
180	11 375 0180 11	129.99
200	11 375 0200 11	150.30
225	11 375 0225 11	185.09



Flame Retardant PP

Flame retardant (PPs) and flame retardant electrically conductive (PPs-el) grades of PP are featured at the end of the Polypropylene section.

Machine Hire

Don't have the tools?
We have a dedicated fleet of welding equipment available to hire on a weekly basis.





PP-H Homopolymer Pipe

PP-R Copolymer Pipe

PN6/S-8.3/SDR17.6			PN10/S-5/SDR11		PN16/S-3.2/SDR7.4		PN10/S-5/SDR 11		
Size	Code	Price/m	Code	Price/m	Code	Price/m	Size	Code	Price/m
10	-	-	-	-	12 705 0010 07	0.61	20	11 705 0020 11	1.60
12	-	-	-	-	12 705 0012 07	0.86	25	11 705 0025 11	2.17
16	-	-	12 705 0016 11	0.85	12 705 0016 07	1.24	32	11 705 0032 11	3.07
20	12 705 0020 17	1.06	12 705 0020 11	1.54	12 705 0020 07	1.61	40	11 705 0040 11	4.25
25	12 705 0025 17	1.38	12 705 0025 11	2.02	12 705 0025 07	2.44	50	11 705 0050 11	6.54
32	12 705 0032 17	1.95	12 705 0032 11	2.86	12 705 0032 07	4.04	63	11 705 0063 11	10.40
40	12 705 0040 17	2.30	12 705 0040 11	3.55	12 705 0040 07	4.95	75	11 705 0075 11	14.40
50	12 705 0050 17	3.62	12 705 0050 11	5.51	12 705 0050 07	7.65	90	11 705 0090 11	20.77
63	12 705 0063 17	5.63	12 705 0063 11	8.56	12 705 0063 07	12.03	110	11 705 0110 11	30.98
75	12 705 0075 17	8.00	12 705 0075 11	11.91	12 705 0075 07	17.13	125	11 705 0125 11	40.03
90	12 705 0090 17	11.07	12 705 0090 11	17.13	12 705 0090 07	24.36	140	11 705 0140 11	50.06
110	12 705 0110 17	17.13	12 705 0110 11	25.61	12 705 0110 07	36.47	160	11 705 0160 11	65.59
125	12 705 0125 17	22.14	12 705 0125 11	33.27	12 705 0125 07	46.91	180	11 705 0180 11	82.76
140	12 705 0140 17	27.28	12 705 0140 11	41.76	12 705 0140 07	59.01	200	11 705 0200 11	102.01
160	12 705 0160 17	35.77	12 705 0160 11	54.39	12 705 0160 07	76.83	225	11 705 0225 11	129.55
180	12 705 0180 17	44.26	12 705 0180 11	68.89	12 705 0180 07	92.41	250	11 705 0250 11	159.40
200	12 705 0200 17	55.25	12 705 0200 11	84.21	12 705 0200 07	114.27	280	11 705 0280 11	199.49
225	12 705 0225 17	69.74	12 705 0225 11	107.16	12 705 0225 07	145.46	315	11 705 0315 11	253.06
250	12 705 0250 17	85.88	12 705 0250 11	131.81					
280	12 705 0280 17	116.35	12 705 0280 11	180.24					
315	12 705 0315 17	148.23	12 705 0315 11	227.56					
355	12 705 0355 17	197.63	12 705 0355 11	303.41					
400	12 705 0400 17	249.83	12 705 0400 11	385.52					
450	12 705 0450 17	371.61	12 705 0450 11	573.41					
500	12 705 0500 17	457.88	12 705 0500 11	708.40					
560	12 705 0560 17	574.79							
630	12 705 0630 17	727.89							
710	12 705 0710 17	922.74							
800	12 705 0800 17	1013.73							

Standard length 5m

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



Polypropylene Material

AGRU Polypropylene pipes and fittings are manufactured in accordance with DIN 8077/8078 using the following materials:

Pipes: Nucleoid PP-H 100 (Beta β-PP)
Fittings: PP-R (polypropylene random copolymer)

Nucleoid PP-H is chosen for pipes because of its exceptional impact strength at cold temperatures, good stress fracture and chemical resistance. PP-R (also optionally available as pipe) provides high long term creep strength at continuous high temperatures. Other types of Polypropylene are also available:

Flame Retardant

PPs (Polypropylene homo-polymer, flame-retardant)

Due to its higher stiffness, PPs is ideally suited for ventilation pipes. The flame-retardant properties enhance the material for this application. Note that this material may not be used outdoors, as it is not UV stabilised.

PPs-el (Polypropylene random copolymer flame-retardant, electro-conductive)

This material combines the benefits of flame retardant properties and electro-conductivity. It can be used for safety reasons in the transport of combustible material.

High Purity

PP Pure PP-R (High purity grade Polypropylene random copolymer)

Selected and fully traceable raw materials are manufactured under strictly controlled conditions. This materials is ideal for less critical ultra-pure water applications (see High Purity Systems).

Polypure PP-R: Natural (Polypropylene random copolymer, natural coloured)

As natural PP-R contains no colour additives, it is ideally suited for high purity water piping systems. Note that it is not UV stabilised (see High Purity Systems).