



**HDPE  
PIPES**

# HDPE PIPES

Muna Noor Manufacturing & Trading LLC is a pioneer in the manufacture of plastic pipe systems in Oman. Today's modern polyethylene resins are highly engineered for rigorous applications within a wide range of applications where a tough, ductile material is required to assure long-term performance.

Polyethylene pipes provide a cost effective solution for a wide range of piping applications such as water supply, drainage and sewerage, gas distribution, industrial piping for slurry and abrasive materials, liner for petroleum flow lines, electrical and telecommunication cable ducting.

One of the major factors that contribute to the growth of polyethylene as a piping material is the cost savings in installation. Polyethylene pipe is a tough and durable system whilst retaining its flexibility and leak proof characteristics thus ensuring lower maintenance costs and increased service life as compared to traditional piping materials.

HDPE pipes produced by Muna Noor ranges from 20 mm to 2000 mm in diameter. The smaller sizes are available in coils whilst the bigger pipes are cut to pipe lengths (e.g. 6 m, 12 m). The company provides

transport for bulk purchases to our customer's destination.

Muna Noor offers comprehensive welding services for Polyethylene, including Butt Fusion, Electrofusion and mechanical jointing from 63mm-2000mm. We are proud to have an established team of 30 specialist welders based at Rusayl Industrial Estate and offer a welding service throughout Oman.

Dependent on the contractor's requirements, Muna Noor can offer a package appropriate for their needs. This can range from purchasing / renting the welding equipment all the way through to a fully inclusive package, utilising Muna Noor's welding equipment and personnel to complete any project.

Based on our customer's request, Muna Noor is on hand to provide competent technical advice and support. These include, but not limited to, the following:

- Choice of pipe class and size of pipe
- Electrofusion and mechanical jointing on site
- Custom design fittings
- A preferred trader to a number of partners within the industry



# PIPES FOR WATER SUPPLY

## DIMENSIONS OF POLYETHYLENE PIPE PE 100 - AS PER ISO: 4427-2 / BS EN 12201-2

Design Stress = 8 Mpa

Nominal Outside Diameter	SDR41	SDR33	SDR26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
	Nominal Wall Thickness								
mm	-	-	mm	mm	mm	mm	mm	mm	mm
20	-	-	-	-	-	-	2.0	2.3	3.0
25	-	-	-	-	-	2.0	2.3	3.0	3.5
32	-	-	-	-	2.0	2.4	3.0	3.6	4.4
40	-	-	-	2.0	2.4	3.0	3.7	4.5	5.5
50	-	-	2.0	2.4	3.0	3.7	4.6	5.6	6.9
63	-	-	2.5	3.0	3.8	4.7	5.8	7.1	8.6
75	-	-	2.9	3.6	4.5	5.6	6.8	8.4	10.3
90	-	-	3.5	4.3	5.4	6.7	8.2	10.1	12.3
110	-	-	4.2	5.3	6.6	8.1	10.0	12.3	15.1
125	-	-	4.8	6.0	7.4	9.2	11.4	14.0	17.1
140	-	-	5.4	6.7	8.3	10.3	12.7	15.7	19.2
160	-	-	6.2	7.7	9.5	11.8	14.6	17.9	21.9
180	-	-	6.9	8.6	10.7	13.3	16.4	20.1	24.6
200	-	-	7.7	9.6	11.9	14.7	18.2	22.4	27.4
225	-	-	8.6	10.8	13.4	16.6	20.5	25.2	30.8
250	-	-	9.6	11.9	14.8	18.4	22.7	27.9	34.2
280	-	-	10.7	13.4	16.6	20.6	25.4	31.3	38.3
315	7.7	9.7	12.1	15.0	18.7	23.2	28.6	35.2	43.1
355	8.7	10.9	13.6	16.9	21.1	26.1	32.2	39.7	48.5
400	9.8	12.3	15.3	19.1	23.7	29.4	36.3	44.7	54.7
450	11.0	13.8	17.2	21.5	26.7	33.1	40.9	50.3	61.5
500	12.3	15.3	19.1	23.9	29.7	36.8	45.4	55.8	-
560	13.7	17.2	21.4	26.7	33.2	41.2	50.8	62.5	-
630	15.4	19.3	24.1	30.0	37.4	46.3	57.2	70.3	-
710	17.4	21.8	27.2	33.9	42.1	52.2	64.5	79.3	-
800	19.6	24.5	30.6	38.1	47.4	58.8	72.6	89.3	-
900	22.0	27.6	34.4	42.9	53.3	66.1	81.7	-	-
1000	24.5	30.6	38.2	47.7	59.3	73.5	90.2	-	-
1200	29.4	36.7	45.9	57.2	71.1	88.2	-	-	-
1400	34.3	42.9	53.5	66.7	83.0	102.8	-	-	-
1600	39.2	49.0	61.2	76.2	94.8	117.5	-	-	-
1800	44.0	55.1	68.8	85.8	106.6	-	-	-	-
2000	48.9	61.2	76.4	95.3	118.5	-	-	-	-

Note: Pipe sizes above 1200mm can be manufactured as per customer requirements



# PIPES FOR GENERAL PURPOSE

## DIMENSIONS OF POLYETHYLENE PIPE - AS PER DIN 8074: 2011

Nominal Outside Diameter	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6	SDR 5
	Nominal Wall Thickness										
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20	-	-	-	-	-	1.8	2.0	2.3	3.0	3.4	4.1
25	-	-	-	-	1.8	2.0	2.3	3.0	3.5	4.2	5.1
32	-	-	-	-	2.0	2.4	3.0	3.6	4.4	5.4	6.5
40	-	-	1.8	2.0	2.4	3.0	3.7	4.5	5.5	6.7	8.1
50	-	1.8	2.0	2.4	3.0	3.7	4.6	5.6	6.9	8.3	10.1
63	1.8	2.0	2.5	3.0	3.8	4.7	5.8	7.1	8.6	10.5	12.8
75	1.9	2.3	2.9	3.6	4.5	5.6	6.8	8.4	10.3	12.5	15.1
90	2.2	2.8	3.5	4.3	5.4	6.7	8.2	10.1	12.3	15.0	18.1
110	2.7	3.4	4.2	5.3	6.6	8.1	10.0	12.3	15.1	18.3	22.1
125	3.1	3.9	4.8	6.0	7.4	9.2	11.4	14.0	17.1	20.8	25.1
140	3.5	4.3	5.4	6.7	8.3	10.3	12.7	15.7	19.2	23.3	28.1
160	4.0	4.9	6.2	7.7	9.5	11.8	14.6	17.9	21.9	26.6	32.1
180	4.4	5.5	6.9	8.6	10.7	13.3	16.4	20.1	24.6	29.9	36.1
200	4.9	6.2	7.7	9.6	11.9	14.7	18.2	22.4	27.4	33.2	40.1
225	5.5	6.9	8.6	10.8	13.4	16.6	20.5	25.2	30.8	37.4	45.1
250	6.2	7.7	9.6	11.9	14.8	18.4	22.7	27.9	34.2	41.5	50.1
280	6.9	8.6	10.7	13.4	16.6	20.6	25.4	31.3	38.3	46.5	56.2
315	7.7	9.7	12.1	15.0	18.7	23.2	28.6	35.2	43.1	52.3	63.2
355	8.7	10.9	13.6	16.9	21.1	26.1	32.2	39.7	48.5	59.0	-
400	9.8	12.3	15.3	19.1	23.7	29.4	36.4	44.7	54.7	66.5	-
450	11.0	13.8	17.2	21.5	26.7	33.1	40.9	50.3	61.5	-	-
500	12.3	15.3	19.1	23.9	29.7	36.8	45.4	55.8	68.3	-	-
560	13.7	17.2	21.4	26.7	33.2	41.2	50.8	62.5	-	-	-
630	15.4	19.3	24.1	30.0	37.4	46.3	57.2	-	-	-	-
710	17.4	21.8	27.2	33.9	42.1	52.2	64.5	-	-	-	-
800	19.6	24.5	30.6	38.1	47.4	58.8	-	-	-	-	-
900	22.0	27.6	34.4	42.9	53.3	66.1	-	-	-	-	-
1000	24.5	30.6	38.2	47.7	59.3	-	-	-	-	-	-
1200	29.4	36.7	45.9	57.2	-	-	-	-	-	-	-
1400*	34.3	42.9	53.5	66.7	-	-	-	-	-	-	-
1600*	39.2	49.0	61.2	-	-	-	-	-	-	-	-

\* on request

# PIPES FOR SUPPLY OF GASEOUS FUELS

## DIMENSIONS OF POLYETHYLENE PIPE PE 100 - AS PER EN 1555-2:2010

Nominal Size DN/OD (mm)	Minimum Wall Thickness (mm)		Nominal Size DN/OD (mm)	Minimum Wall Thickness (mm)	
	SDR 17	SDR 11		SDR 17	SDR 11
20	2.3	3.0	180	10.7	16.4
25	2.3	3.0	200	11.9	18.2
32	2.3	3.0	225	13.4	20.5
40	2.4	3.7	250	14.8	22.7
50	3.0	4.6	280	16.6	25.4
63	3.8	5.8	315	18.7	28.6
75	4.5	6.8	355	21.1	32.2
90	5.4	8.2	400	23.7	36.4
110	6.6	10.0	450	26.7	40.9
125	7.4	11.4	500	29.7	45.5
140	8.3	12.7	560	33.2	50.9
160	9.5	14.6	630	37.4	57.3

# PIPES FOR SUPPLY OF GASEOUS FUELS

## DIMENSIONS OF POLYETHYLENE PIPE PE 100 - AS PER ISO 4437-2:2014

Nominal Outside Diameter	SDR 17	SDR 13.6	SDR 11	SDR 9
	Wall Thickness	Wall Thickness	Wall Thickness	Wall Thickness
mm	mm	mm	mm	mm
20	-	-	2.3	3.0
25	-	2.3	2.3	3.0
32	2.3	2.4	3.0	3.6
40	2.4	3.0	3.7	4.5
50	3.0	3.7	4.6	5.6
63	3.8	4.7	5.8	7.1
75	4.5	5.6	6.8	8.4
90	5.4	6.7	8.2	10.1
110	6.6	8.1	10.0	12.3
125	7.4	9.2	11.4	14.0
140	8.3	10.3	12.7	15.7
160	9.5	11.8	14.6	17.9
180	10.7	13.3	16.4	20.1
200	11.9	14.7	18.2	22.4
225	13.4	16.6	20.5	25.2
250	14.8	18.4	22.7	27.9
280	16.6	20.6	25.4	31.3
315	18.7	23.2	28.6	35.2
355	21.1	26.1	32.2	39.7
400	23.7	29.4	36.4	44.7
450	26.7	33.1	40.9	50.3
500	29.7	36.8	45.5	55.8
560	33.2	41.2	50.9	-
630	37.4	46.3	57.3	-

## DIMENSIONAL CHART FOR HDPE GROOVED DUCT

Nominal Outside Diameter mm	Tolerance mm	Max. Ovality mm	Wall Thickness mm t	Grooved Depth mm h
25	+ 0.3	1.3	2.6	0.3 ± 0.1
32	+ 0.3	1.3	3.0	0.3 ± 0.1
40	+ 0.3	1.3	3.5	0.3 ± 0.1
50	+ 0.5	1.4	4.6	0.4 ± 0.2
63	+ 0.6	1.4	5.0	0.4 ± 0.2

Supplied in 100 / 200 / 500 and 1000 Mtr. Coils.

As per customer request

## DIMENSIONAL TABLE FOR DOUBLE WALL CORRUGATED PE DUCT

Outside Diameter	Tolerance (mm)	Minimum Inside Diameter	Lengths
* 63	+ 1.2	50	100 meters coil
* 75	+ 1.4	60	
* 90	+ 1.7	71	
110	+ 2.0	94	
120	+ 2.3	103.5	
* 168.7	+ 2.9	145	12 Mtr.

\* on request

## DIMENSIONS OF POLYETHYLENE CONDUIT NEMA TC-7-2005 EP EC - 40 / ASTM D2447 SCH 40/ UL LISTED TO 651A

Nominal Size	Average Outside Diameter		Wall Thickness (WT)		WT Tolerance (+)	
	inch	mm	inch	mm	inch	mm
1/2 "	0.840	21.34	0.109	2.77	0.021	0.51
3/4 "	1.050	26.67	0.113	2.87	0.020	0.51
1 "	1.315	33.40	0.133	3.38	0.020	0.51
1-1/4"	1.660	42.16	0.140	3.56	0.020	0.51
1-1/2"	1.900	48.26	0.145	3.68	0.020	0.51
2"	2.375	60.33	0.154	3.91	0.020	0.51
2-1/2"	2.875	73.03	0.203	5.16	0.024	0.61
3"	3.500	88.90	0.216	5.49	0.026	0.66
4"	4.500	114.30	0.237	6.02	0.028	0.71
5"	5.563	141.30	0.258	6.55	0.031	0.79
6"	6.625	168.28	0.280	7.11	0.034	0.86
* 8"	8.625	219.08	0.322	8.18	0.039	0.99

\* Since 8" is not listed in NEMA/UL a proportionate wall thickness is assumed

## DIMENSIONS OF POLYETHYLENE CONDUIT NEMA TC-7-2005 EP EC - 80 / ASTM D2447 SCH 80/ UL LISTED TO 651A

Nominal Size	Average Outside Diameter		Wall Thickness (WT)		WT Tolerance (+)	
	inch	mm	inch	mm	inch	mm
1/2 "	0.840	21.34	0.147	3.73	0.020	0.51
3/4 "	1.050	26.67	0.154	3.91	0.020	0.51
1 "	1.315	33.40	0.179	4.55	0.021	0.53
1-1/4"	1.660	42.16	0.191	4.85	0.023	0.58
1-1/2"	1.900	48.26	0.200	5.08	0.024	0.61
2"	2.375	60.33	0.218	5.54	0.026	0.66
2-1/2"	2.875	73.03	0.276	7.01	0.033	0.84
3"	3.500	88.90	0.300	7.62	0.036	0.91
4"	4.500	114.30	0.337	8.56	0.040	1.02
5"	5.563	141.30	0.375	9.53	0.045	1.14
6"	6.625	168.28	0.432	10.97	0.052	1.32
* 8"	8.625	219.08	0.507	12.88	0.052	1.32

\* Since 8" is not listed in NEMA/ UL a proportionate wall thickness is assumed

## DRIP TUBES FOR WORKING PRESSURE OF 4 BAR

Material: Linear low density polyethylene

Nominal Size	Outside Diameter		Wall Thickness		
	mm	Minimum	Maximum	Minimum	Maximum
13 (ID)	15.5	15.5	15.7	1.2	1.4
15 (ID)	17.4	17.4	17.6	1.2	1.4
19 (ID)	21.8	21.8	22.1	1.4	1.6
16 (ID)	18.6	18.6	19.0	1.3	1.5
25 (OD)	24.8	24.8	25.1	1.7	1.9
25 (ID)	28.0	28.0	28.5	1.5	1.7

Omanplast™ LLDPE Drip tube is compatible with all international standard drip irrigation fittings.

# DIMENSIONS OF POLYETHYLENE MULTILAYER PIPE PE 100 AS PER ISO: 4427-2 / BS EN 12201-2

Design Stress: 8 Mpa Colour: Customer Choice

Nominal Outside Diameter	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11
	PN 6	PN 8	PN 10	PN 12.5	PN 16
mm	mm	mm	mm	mm	mm
315	12.1	15.0	18.7	23.2	28.6
355	13.6	16.9	21.1	26.1	32.2
400	15.3	19.1	23.7	29.4	36.4
450	17.2	21.5	26.7	33.1	40.9
500	19.1	23.9	29.7	36.8	45.4
560	21.4	26.7	33.2	41.2	50.8
630	24.1	30.0	37.4	46.3	57.2
710	27.2	33.9	42.1	52.2	64.5
800	30.6	38.1	47.4	58.8	72.6
900	34.4	42.9	53.3	66.1	81.7
1000	38.2	47.7	59.3	73.5	90.2
1200	45.9	57.2	71.1	88.2	-

Note: Pipe sizes above 1200mm can be manufactured as per customer requirements

## DIMENSIONAL CHART FOR SPIRALLY RIBBED DUCT

Size(OD x Wall)	Outside Diameter mm	Ovality mm	Wall Thickness mm	Number of Ribs
32 x 3.0 mm	32.0 + 0.3	1.3	3.0 + 0.5	6
	- 0.0		- 0.0	
40 x 2.6 mm	40.0 + 0.4	1.3	2.6 + 0.6	6
	- 0.0		- 0.0	
40 x 3.5 mm	40.0 + 0.4	1.3	3.5 + 0.5	6
	- 0.0		- 0.0	
50 x 4.6 mm	50.0 + 0.5	1.4	4.6 + 0.7	6
	- 0.0		- 0.0	
50 x 5 mm	50.0 + 0.5	1.4	5.0 + 0.7	6
	-0.0		-0.0	

## DIMENSIONAL CHART FOR GROOVED / SUB DUCT

Size (OD x Wall)	Outside diameter mm	Ovality mm (Max.)	Wall Thickness mm	Groove Height	Number of Grooves
50 x 5 mm	50.0 + 0.5	1.4	5.0 + 0.7	0.4± 0.2	135
	-0.0		-0.0		
50 x 4.6 mm	50.0 + 0.5	1.4	4.6 + 0.7	0.4± 0.2	135
	- 0.0		- 0.0		
48 x 4.0 mm	48.0 + 0.5	1.4	4.6 + 0.6	0.4± 0.2	135
	- 0.0		- 0.0		
41 x 3.5 mm	41.0 + 0.5	1.4	3.5 + 0.5	-	-
	- 0.0		- 0.0		
40 x 3.5 mm	40.0 + 0.3	1.3	3.5 + 0.5	0.3± 0.1	135
	- 0.0		- 0.0		
40 x 3.7 mm	40.0 + 0.3	1.3	3.7 + 0.5	-	-
	- 0.0		- 0.0		
38 x 4.0 mm	38.0 + 0.3	1.3	4.0 + 0.5	-	-
	- 0.0		- 0.0		
32 x 3.0 mm	32.0 + 0.3	1.3	3.0 + 0.5	0.3± 0.1	135
	- 0.0		- 0.0		
32 x 2.9 mm	32.0 + 0.3	1.3	2.9 + 0.5	-	-
	- 0.0		- 0.0		
32 x 1.9 mm	32.0 + 0.3	1.3	1.9 + 0.5	0.15± 0.05	135
	- 0.0		- 0.0		
25 x 2.6 mm	25.0 + 0.3	1.3	2.6 + 0.4	0.3± 0.1	135
	- 0.0		- 0.0		

For full product technical specification and certifications, please visit [www.munanoor.com](http://www.munanoor.com)



# ABOUT MUNA NOOR

Muna Noor Manufacturing & Trading LLC is one of Oman's leading manufacturers and suppliers of plastic pipe systems, meeting the needs of the construction, civil, agricultural, industrial and petrochemical industries, primarily in the Middle East, but also supplying Asia and North Africa.

To date Muna Noor's divisions deliver large-scale and bespoke uPVC, HDPE, DWC and Multi-layer HDPE pipes, fittings, plastic fabrication, lining for steel pipe, traditional and electro fusion welding solutions, complete irrigation systems, SCADA control systems and a multiplicity of valves and controls for water.

The company continues to develop product state-of-the-art solutions with the aim to exceed client expectations and collaborate on new and exciting projects.

As an ISO 9001:2015 certified company, our primary commitment is to deliver quality products and services to clients. Muna Noor's quality and success has also been recognised by financial industry leaders in the region and has been made a subsidiary by the Boubyan Petrochemical Company (K.S.C), which is a blue chip company of the Kuwait Stock Exchange and premium institution in Kuwait for investment in the field of petrochemicals by the private sector.



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