

PRODUCT RANGE of uPVC Pipes

M.T. PLAST is manufacturing uPVC pipes conforming to

1. Saudi Arabian standards SAS 14 & 15 1998 H, German standards DIN-8062
2. American standards ASTM D 1785 & ASTM D-2241
3. British standards BS 3505 / 3506

1. M.T. PLAST uPVC Pipes according to SAS 14-15 / 1998 and DIN 8062 Standards

Nominal O.D. mm	Tolerance on O.D. mm	Class 1 2.5 Bar		Class 2 4 Bar		Class 3 6 Bar		Class 4 10 Bar		Class 5 16 Bar	
		Nominal Thickness mm	Nominal Weight Kg/M	Nominal Thickness mm	Nominal Weight Kg/M	Nominal Thickness mm	Nominal Weight Kg/M	Nominal Thickness mm	Nominal Weight Kg/M	Nominal Thickness mm	Nominal Weight Kg/M
16	+0.2									1.2	0.09
20	+0.2									1.5	0.137
25	+0.2							1.5	0.174	1.9	0.212
32	+0.2							1.8	0.264	2.4	0.342
40	+0.2					1.8	0.344	1.9	0.350	3.0	0.525
50	+0.2					1.8	0.422	2.4	0.552	3.7	0.809
63	+0.2					1.9	0.562	3.0	0.854	4.7	1.29
75	+0.3			1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.82
90	+0.3			1.8	0.774	2.7	1.13	4.3	1.75	6.7	2.61
110	+0.3	1.8	0.950	2.2	1.16	3.2	1.64	5.3	2.61	8.2	3.90
125	+0.3	1.8	1.08	2.5	1.48	3.7	2.13	6.0	3.34	9.3	5.01
140	+0.4	1.8	1.21	2.8	1.84	4.1	2.65	6.7	4.18	10.4	6.27
160	+0.4	1.8	1.39	3.2	2.41	4.7	3.44	7.7	5.47	11.9	8.17
200	+0.4	1.8	1.74	4.0	3.70	5.9	5.37	9.6	8.51	14.9	12.8
225	+0.5	1.8	1.96	4.5	4.70	6.6	6.76	10.8	10.8	16.7	16.1
250	+0.5	2.0	2.40	4.9	5.65	7.3	8.31	11.9	13.2	18.6	19.9
280	+0.6	2.3	3.11	5.5	7.11	8.2	10.40	13.40	16.60	20.8	24.9
315	+0.6	2.5	3.78	6.2	9.02	9.2	13.2	15.0	20.9	23.4	31.5
355	+0.7	2.9	4.68	7.0	11.4	10.4	16.7	16.9	26.5	26.3	39.9
400	+0.7	3.2	6.10	7.9	14.5	11.7	21.1	19.1	33.7	29.7	50.8
450	+0.8	3.6	7.65	8.9	18.3	13.2	26.8	21.5	42.7		
500	+0.9	4.0	9.38	9.8	22.4	14.6	32.9	23.9	52.6		
560	+1.0	4.2	11.8	11.0	28.1	16.4	41.4	26.7	65.8		
630	+1.1	5.0	14.7	12.4	35.7	18.4	52.2	30.0	83.2		
710	+1.2	5.7	18.9	14.0	45.3	20.7	66.1				
800	+1.3	6.4	23.9	15.7	57.2	23.3	83.9				

1. M.T. PLAST uPVC Pipes according to ASTM D 1785 schedule 40 & 80

Nominal Size in Inch	Outside Diameter mm		Schedule 40				Schedule 80			
			Thickness of wall mm		Weight Kg/M	Pressure Rating Bar	Thickness of Wall mm		Weight Kg/M	Pressure Rating Bar
	Min.	Max.	Min.	Max.			Min.	Max.		
1/2	21.2	21.5	2.8	3.3	0.24	41.4	3.7	4.2	0.31	58.6
3/4	26.6	26.9	2.9	3.4	0.33	33.1	3.9	4.4	0.41	47.6
1	33.4	33.7	3.4	3.9	0.48	31.0	4.6	5.1	0.60	43.4
1 1/4	42.1	42.4	3.6	4.1	0.65	25.5	4.9	5.4	0.84	35.9
1 1/2	48.1	48.4	3.7	4.2	0.77	22.7	5.10	5.7	1.03	32.4
2	60.2	60.5	3.9	4.4	1.04	19.3	5.5	6.2	1.41	27.6
3	88.7	89.1	5.5	6.2	2.14	17.9	7.6	8.5	2.88	25.5
4	114.1	114.5	6.0	6.7	3.05	15.2	8.6	9.6	4.22	22.1
6	168.0	168.5	7.1	8.0	5.37	12.4	11.0	12.3	8.05	19.3
8	218.8	219.4	8.2	9.2	8.11	11.0	12.7	14.2	12.23	17.2

M. T. Plast uPVC Pipes based on ASTM D - 2241

Nominal Size in Inch	Outside Diameter mm		Wall Thickness mm											
			Standard Dimension Ratio (SDR)											
			41 W.P: 6.9 Bar		32.5 W.p 8.6 Bar		26 W.P 11 Bar		21 W.P 13.8 Bar		17 W.P 17.2 Bar		13.5 W.P 21.7 Bar	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/2	21.24	21.44											1.57	2.08
3/4	26.57	26.77							1.52	2.03	1.57	2.08	1.98	2.49
1	33.27	33.53					1.52	2.03	1.60	2.11	1.96	2.46	2.46	2.97
1 1/4	42.03	42.29			1.52	2.03	1.63	2.13	2.01	2.52	2.49	3.00	3.12	3.63
1 1/2	48.11	48.41			1.52	2.03	1.85	2.36	2.29	2.80	2.84	3.35	3.58	4.09
2	60.17	60.47			1.85	2.36	2.31	2.82	2.87	3.38	3.56	4.06	4.47	4.98
3	88.70	89.10	2.16	2.67	2.74	3.25	3.43	3.94	4.24	4.75	5.23	5.87	6.58	7.37
4	114.07	114.53	2.80	3.30	3.51	4.01	4.39	4.90	5.44	6.10	6.73	7.54	8.46	9.47
6	168.00	168.56	4.11	4.62	5.18	5.79	6.48	7.26	8.03	9.00	9.91	11.10	12.47	13.97
8	218.70	219.46	5.33	5.97	6.73	7.54	8.43	9.45	10.41	11.66	12.90	14.45		

PRODUCT RANGE of uPVC Pipes

3. M.T. PLAST uPVC Pipes according to B.S. 3505 & 3506

S i z e	Outside Diameter mm	Class - O (non-Pressure)		Class - B (6 Bar)		Class - C (9 Bar)		Class - D (12 Bar)		Class - E (15 Bar)		Class - 6		Class - 7	
		Thickness mm	Weight Kg/M	Thickness mm	Weight Kg/M	Thickness mm	Weight Kg/M	Thickness mm	Weight Kg/M	Thickness mm	Weight Kg/M	Thickness mm	Work Per Bar	Thickness mm	Work Per Bar
1/2"	21.2 21.5							1.5 1.7	0.142	1.7 2.1	0.159	2.8 3.3	32	3.7 4.3	45
3/4"	26.6 26.9							1.6 1.8	0.192	1.9 2.5	0.225	2.9 3.4	26	3.9 4.5	36
1"	33.4 33.7							1.8 2.0	0.265	2.2 2.7	0.350	3.4 4.0	24	4.5 5.2	33
1 1/4"	42.1 42.4							2.2 2.7	0.434	2.7 3.2	0.508	3.6 4.2	20	4.8 5.5	27
1-1/2"	48.1 48.4	1.80 2.20	0.384					2.5 3.0	0.534	3.1 3.7	0.667	3.7 4.3	18	5.1 5.9	25
2"	60.2 60.5	1.8 2.2	0.491			2.5 3.0	0.683	3.1 3.7	0.850	3.9 4.5	1.042			5.5 6.3	21
2-1/2"	75.0 75.3	1.8 2.2	0.610			3.0 3.5	1.016	3.9 4.5	1.317	4.8 5.5	1.594				
3"	88.7 89.1	1.8 2.2	0.744	2.9 3.3	1.200	3.5 4.1	1.417	4.6 5.3	1.834	5.7 6.6	2.250				
4"	114.1 114.5	2.3 2.8	1.217	3.4 4.0	1.800	4.5 5.2	2.350	6.0 6.9	3.050	7.3 8.4	3.700				
5"	140.0 140.4	2.6 3.1		3.8 4.4		5.5 6.4		7.3 8.4		9.0 10.4					
6"	168.0 168.5	3.1 3.7		4.5 5.2		6.6 7.6		8.8 10.2		10.8 12.5					
8"	218.8 219.4	3.1 3.7		5.3 6.1		7.8 9.0		10.3 11.9		12.6 14.5					

NOTE: uPVC pipes according to B.S. 3505 & 3506 are produced only in solvent joint or plain end.

M.T.Plast uPVC Aboveground Waste Pipes According to B.S. 5255

a)

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
32 (1 1/4 ")	36.15	36.45	1.8	2.2	0.301
40 (1 1/2")	42.75	43.05	1.9	2.3	0.376
50 (2")	55.75	56.05	2.0	2.4	0.519

b)

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
32 (1 1/4 ")	36.15	36.45	1.8	2.2	0.301
40 (1 1/2")	42.75	43.05	2.3	2.8	0.452
50 (2")	55.75	56.05	2.4	2.9	0.620

M.T.Plast uPVC Drain, Water, Vent Pipes According to ASTM D-2265

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
1 1/4	42.03	42.29	3.56	9.06	0.65
1 1/2	48.11	48.41	3.68	4.19	0.77
2	60.17	60.47	3.91	4.42	1.04
3	88.7	89.1	5.49	6.15	2.14
4	114.1	114.5	6.02	6.73	3.05
6	168	168.56	7.11	7.98	5.37
8	218.7	219.46	8.18	9.17	8.11

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M.T.Plant uPVC Drain, Water, Vent Pipes According to Din 19531

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
40	40.0	40.2	1.8	2.2	0.381
50	50.0	50.2	1.8	2.2	0.481
75	75.0	75.3	1.8	2.2	0.642
110	110.0	110.3	2.2	2.7	1.160
125	125.0	125.3	2.5	3.0	1.480
160	160.0	160.4	3.2	3.8	2.410

M.T. Plast uPVC Underground Sewer Pipe (Gravity) According to BS 5481

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
200	200.0	200.6	4.9	5.6	4.50
250	250.0	250.7	6.1	7.0	7.01
315	315.0	315.9	7.7	8.7	11.07
400	400.0	401.0	9.8	11.0	17.83

M.T. Plast uPVC Underground Drainage & Sewer Pipes According to BS 4660

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
110 (4")	110.0	110.4	3.2	3.8	1.64
160 (6")	160.0	160.6	4.1	4.8	3.04

M.T. Plast uPVC Aboveground Soil Pipes According to BS 4514

Nominal Size in Inch	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	Min.	Max.	Min.	Max.	
82 (3")	82.4	82.8	3.2	3.8	1.21
110 (4")	110.0	110.4	3.2	3.8	1.64
160 (6")	160.0	160.6	3.3	3.9	2.47

M.T.Plast uPVC Drain, Water, Vent Pipes According to DIN 19534

Nominal Size in mm	Outside Diameter (mm)		Wall Thickness (mm)		Insertion Depth	Weight Kg/ m
	(D)	Tolerance	(S)	Tolerance		
110	110	0.3	3.0	+0.5	115	1.63
125	125	0.3	3.0	+0.5	120	1.870
160	160	0.4	3.6	+0.6	132	2.650
200	200	0.4	4.5	+0.7	145	4.120
250	250	0.5	6.1	+0.9	160	7.00
315	315	0.6	7.7	+1.0	180	11.110
400	400	0.7	9.8	+1.2	200	17.800
500	500	0.9	12.2	+1.5	250	27.649
600	630	1.1	15.4	+1.8	300	43.944

M.T.Plast uPVC Sewer Pipes (Gravity) According to DIN 8061 / DIN 8062

Nominal Size in mm	Outside Diameter (mm)		Wall Thickness (mm)		Weight Kg/ m
	(D)	Tolerance	(S)	Tolerance	
110	110	0.3	3.2	+0.6	1.64
125	125	0.3	3.7	+0.6	2.130
160	160	0.4	4.7	+0.7	3.440
200	200	0.4	5.9	+0.8	5.370
250	250	0.5	7.3	+1.0	8.310
315	315	0.6	9.2	+1.2	13.2
400	400	0.7	11.7	+1.4	21.1
500	500	0.9	14.6	+1.7	32.90

PRODUCT RANGE of uPVC Pipes

M.T.Plast uPVC Drain, Water, Vent Pipes According to NEMA TC-2

Nominal Size in Inch	Average Outside Diameter mm	EPT - PVC		EPC - 40 - PVC		EPC- 80 - PVC	
		Wall Thickness (Minimum) mm	Nominal Weight Kg/m	Wall Thickness (Minimum) mm	Nominal Weight Kg/m	Wall Thickness (Minimum) mm	Nominal Weight Kg/m
1/2	21.34	1.52	0.155	2.77	0.248	3.73	0.309
3/4	26.67	1.52	0.198	2.87	0.329	3.91	0.418
1	33.40	1.52	0.251	3.38	0.483	4.55	0.614
1 1/4	42.16	1.78	0.365	3.56	0.652	4.85	0.850
1 1/2	48.26	2.03	0.470	3.68	0.779	5.08	1.03
2	60.32	2.54	0.719	3.91	1.04	5.54	1.43
2 1/2	73.02	2.79	0.952	5.16	1.65	7.01	2.18
3	88.90	3.18	1.31	5.49	2.16	7.62	2.91
4	114.30	3.81	2.00	6.02	3.07	8.56	4.26
5	141.05	-	-	6.22	4.18	9.52	6.42
6	168.28	-	-	7.11	5.41	10.97	8.13

- EPT** **Electrical Plastic Tubing** - Designed to be encased in concrete
- EPC - 40** **Electrical Plastic Tubing** - Designed to be normal duty in concrete
- EPC - 80** **Electrical Plastic Tubing** - Designed for heavy duty application



M.T.Plast uPVC Pipes According to NEMA TC - 6 & ASTM F512

Normal Size Inch	Average Outside Diameter mm	PVC - TYPE EB 20		PVC - TYPE DB 60	
		Wall Thickness (Minimum) mm	Nominal Weight Kg/M	Wall Thickness (Minimum) mm	Nominal Weight Kg/M
2	60.32	1.52	0.465	1.52	0.465
3	88.90	1.55	0.703	2.34	1.00
4	114.30	2.08	1.17	3.07	1.65
5	141.05	2.62	1.71	3.86	2.5
6	168.28	3.18	2.53	4.62	3.57

M.T.Plast uPVC Pipes According to NEMA TC - 8 & ASTM F512

Normal Size Inch	Average Outside Diameter mm	PVC - TYPE EB 135		PVC - TYPE DB 120	
		Wall Thickness (Minimum) mm	Nominal Weight Kg/M	Wall Thickness (Minimum) mm	Nominal Weight Kg/M
1	33.40	-	-	1.52	0.251
1 1/2	48.28	-	-	1.52	0.369
2	60.32	1.52	0.465	1.98	0.576
3	88.90	1.93	0.847	3.00	1.25
4	114.30	2.54	1.39	3.91	2.06
5	141.05	3.20	2.09	4.85	3.12
6	168.28	3.86	3.02	5.77	4.42

Type EB : Designed for encased burial in concrete

Type DB : Designed for direct burial without encasement in concrete

Length of Pipe : Standard 6 meter length other length available on request

Pipe Jointing : Each pipe has an integral solvent weld socket or plain ended

Colour of Pipe : Grey (Other colour on request)