

IS : 4985



CM/L : 2362145

IS : 12818



CM/L : 6229668

LOTUS

uPVC PIPES & BOREWELL CASING PIPES

Ideal Choice for all your Water Systems



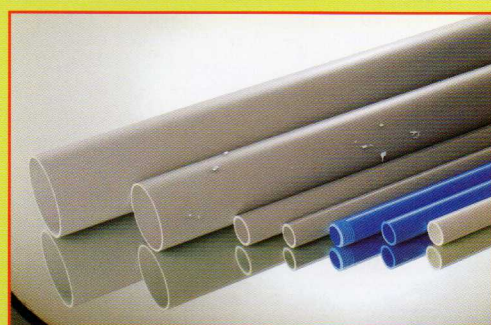
POLYTOUGH TUBES LTD. incorporated in the year 1989, is a leading manufacturer of UPVC Rigid Pipes. The company's factory is located in Maduranthagam in Kancheepuram Dist near Chennai with imported and Indian extrusion systems.

Since inception the Company has introduced innovative concepts in thermoplastics for Residential, Agricultural and Industrial applications. Polytoough Tubes's ongoing investments in plant, machinery and technology, combined with in-house process and product innovations, has created a culture of continual product and plant development.

The company's products have been tested extensively and certified by various test houses. The products have been certified as confirming to the specification of Bureau of Indian Standards : IS:4985 and IS:12818. Polytoough Tubes also produces PVC Pipes as per ASTM D1785.

► Features

1. Manufactured in highly advanced and modern twin screw extruders coupled with new generation accessory systems.
2. Uniform thickness & quality.
3. Tested for strength under strict quality control.
4. Only first quality PVC resin used.
5. Sizes ranging from 20 mm to 315 mm.
6. Equally good for plumbing and irrigation.
7. Perfect adherence to size and specification standards so that accessories fit perfectly.
8. Wide network of dealers all over Southern India.



► Application

Drinking Water, Irrigation Systems, Building Industry (Plumbing and Rain Water Drain) Bore Wells and Tube Wells, Drainage & Sewage Systems, Salt Water Projects, Industrial Effluent Disposal, Electrical Conduits, Telephone Ducting & Insulation, Sprinkler System and Drip Irrigation.



► Products

Sl. No	Standard	Sizes
1	ASTM SCH 40 and SCH 80	1/2" to 2"
2	Casing Pipes for Borewells (also Ribbed Screen Pipes)	Upto 10"
3	Rigid uPVC Pipes (ISI)	20 mm to 315 mm
4	Rigid uPVC Pipes (Commercial)	20 mm to 315 mm
5	Rigid uPVC Pipes (Commercial)	20 mm to 50 mm

► Dimension of uPVC Pipes

(All Dimensions in Millimeters)

IS 4985 : 2000 (Extract)				Wall Thickness for Working Pressure					
Outside Diameter	Tolerance on Outside Diameter	Class 1 2.5 kgf / Cm ²		Class 2 4 Kgf / Cm ²		Class 3 6 Kgf / Cm ²		Class 5 10 Kgf / Cm ²	
		Min	Max	Min	Max	Min	Max	Min	Max
20	+0.3	-	-	-	-	-	-	1.1	1.5
25	+0.3	-	-	-	-	-	-	1.4	1.8
32	+0.3	-	-	-	-	-	-	1.8	2.2
40	+0.3	-	-	-	-	1.4	1.8	2.2	2.7
50	+0.3	-	-	-	-	1.7	2.1	2.8	3.3
63	+0.3	-	-	1.5	1.9	2.2	2.7	3.5	4.1
75	+0.3	-	-	1.8	2.2	2.6	3.1	4.2	4.9
90	+0.3	1.3	1.7	2.1	2.6	3.1	3.7	5.0	5.7
110	+0.4	1.6	2.0	2.5	3.0	3.7	4.3	6.1	7.1
140	+0.5	2.0	2.4	3.2	3.8	4.8	5.5	7.7	8.9
160	+0.5	2.3	2.8	3.7	4.3	5.4	6.2	8.8	10.2
180	+0.6	2.6	3.1	4.2	4.9	6.1	7.1	9.9	11.4
200	+0.6	2.9	3.4	4.6	5.3	6.8	7.9	11.0	12.7
225	+0.7	3.3	3.9	5.2	6.0	7.6	8.8	12.4	14.3
250	+0.8	3.6	4.2	5.7	6.5	8.5	9.8	13.8	15.9
280	+0.9	4.1	4.8	6.4	7.3	9.5	11.0	15.4	17.8
315	+1.0	4.6	5.3	7.2	8.3	10.7	12.4	17.3	19.9

► Dimension of Casing Pipes for Borewells IS:12818

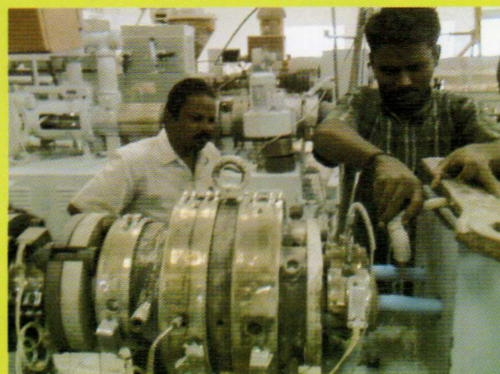
Sl. No	Nominal Size		Outer Diameter (mm)		Casing Shallow (CS) (Depth upto 80 mtr)		Casing Medium (CM) (Depth upto 250 mtr)	
1	4	100	113.0	113.3	-	-	5.0	5.7
2	5	125	140.0	140.4	-	-	6.5	7.3
3	6	150	165.0	165.4	5.7	6.5	7.5	8.5
4	7	175	200.0	200.5	7.0	7.8	8.8	9.8
5	8	200	225.0	225.5	7.6	8.8	10.0	11.2
6	10	250	280.0	280.5	9.6	11.0	12.5	14.0

► ASTM PVC Pipes - As per ASTM-D-1785

Sl. No	Nominal - Pipe Size (in Inch)	Outer Dia (mm)	Schedule 40 Wall Thickness (mm)	Schedule 80 Wall Thickness (mm)
1	½	21.2	2.8	3.7
2	¾	26.6	2.9	3.9
3	1	33.3	3.4	4.5
4	1¼	42.0	3.6	4.9
5	1½	48.1	3.7	5.2
6	2	60.2	3.9	5.5

► Dimension of uPVC Plain End Plumbing Pipes

Sl. No	Nominal - Pipe Size	Mean - Outer Diametre		Wall Thickness	
		Min	Max	Min	Max
1	20	20.0	20.3	2.8	3.3
2	25	25.0	25.3	2.9	3.4
3	32	32.0	32.3	3.4	3.9
4	40	40.0	40.3	3.6	4.2
5	50	50.0	50.3	3.7	4.3



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