

IS: 4985

CM/L: 2362145

IS: 12818



CM/L: 6229668

**POLYTOUGH & BHAVANI PVC PIPES** 

# BHAVANI

**uPVC PIPES & BOREWELL CASING PIPES** 

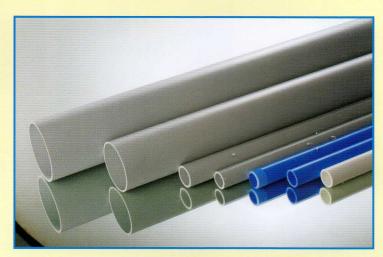
## Quality is our mission



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. Polytough 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. Polytough Tubes also produces PVC Pipes as per ASTM D1785.



#### **Features**

- 1. Only first quality Resin is used.
- 2. Uniform thickness & quality.
- 3. Wide network of dealers all over Southern India.
- 4. Low transportation cost, ease of handling.
- 5. uPVC pipes have smooth surface, which reduces pressure losses and conserve electricity.
- 6. The requirement of solvent cement for pipeline is reduced.
- 7. Equally good for plumbing and irrigation.
- 8. Perfect adherence to size and specification standards.

#### 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

- 1. Agriculture selfit uPVC pipes ranging from 20mm to 315mm
- 2. **Plumbing uPVC plain end pipes** ranging from 20mm to 50mm with standard 15 kgf/cm<sup>2</sup> working pressure class
- 3. ASTM uPVC pipes ranging from ½" to 10" in schedule 40 & schedule 80 series.
- 4. Casing pipes ranging from 10mm (4") to 250mm (10") in both CS and CM.

#### Dimension of uPVC Pipes for Potable Water Supplies

(All Dimensions in Millimeters)

IS 4	Wall Thickness for Working Pressure								
Outer Diameter	Tolerance on Outer Diameter		s - 1 g / Cm² Max	Clas 4 Kg Min	s - 2 / Cm² Max	Clas 6 Kg Min	s - 3 / Cm² Max	Clas 10 Kg Min	ss - 5 g / Cm² 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	7.4	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 uPVC Plain End Plumbing Pipes

SI.	Nominal - Pipe Size	Mean - Outsi	de Diametre	Wall Thickness		
No	Tronniat Tipe Size	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	

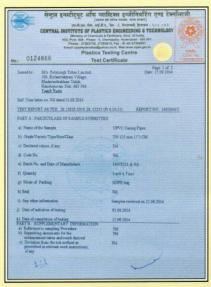
#### Dimension of Casing Pipes for Borewells IS 12818: 2010

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

#### ► ASTM PVC Pipes - As per ASTM D-1785

			Scl	hedule 40	Schedule 80		
SI. No	Pipe Size	Outer Dia	Wall Thickness	working Pressure	Wall Thickness	working Pressure	
110	(in.)	(mm)	(mm)	at 23°C (kg/cm²)	(mm)	at 23°C (kg/cm²)	
1	1/2	21.34 ± 0.10	2.77 + 0.51	42.19	3.73 + 0.51	59.77	
2	3/4	26.67 ± 0.10	2.87 + 0.51	33.75	3.91 + 0.51	48.55	
3	1	33.40 ± 0.13	3.38 + 0.51	31.62	4.55 + 0.53	44.27	
4	11/4	42.16 ± 0.13	3.56 + 0.51	26.01	4.85 + 0.58	36.62	
5	1½	48.26 ± 0.15	3.68 + 0.51	23.25	5.08 + 0.61	33.04	
6	2	60.32 ± 0.15	3.91 + 0.51	19.69	5.54 + 0.66	28.15	
7	21/2	73.02 ± 0.18	5.16 + 0.61	21.11	7.01 + 0.84	29.58	
8	3	88.90 ± 0.20	5.49 + 0.66	18.26	7.62 + 0.91	26.01	
9	4	114.30 ± 0.23	6.02 + 0.71	15.50	8.56 + 1.02	22.54	
10	5	141.30 ± 0.25	6.55 + 0.79	13.10	9.52 + 1.14	20.15	
11	6	168.28 ± 0.28	7.11 + 0.86	12.65	10.97 + 1.32	19.69	
12	8	219.08 ± 0.38	8.18 + 0.99	11.22	12.70 + 1.52	17.54	

### Certificates of Approval THE CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET)











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