

# Green Agri PVC Pipes



Saving Water for Future



# GreenAgri PVC Pipes & Fittings

## Introduction

Presently GreenAgri is one of the leading producer in Asia of plastic piping systems for all conceivable applications with pipes ranging from as small as 3 mm to 110 mm in diameter and in pressure rating from 1.00 kgf/cm<sup>2</sup> to 25 kgf/cm<sup>2</sup>. GreenAgri has a production capacity of over 5,000 tonne per annum of 800 km/day. The piping Division includes PE, PVC Pipes and Fittings catering to the urban and rural infrastructure needs of the country apart from irrigation needs of the farmers. The pipes are manufactured conforming to IS, DIN, ISO, ASTM, TEC and other customized specification.

## Process

PVC Resin is mixed with other required chemical additives to form a ready-mix for Extrusion into Pipes. The compound gets plasticized inside the extruder barrel and pushed forward by the screw. The die and mandrel shape the molten mass and the calibrator fixes the size. The extruded pipe, cooled and hardened through cooling tanks and is pulled by the haul-off continuously. The cutter cuts off pipes in required lengths.

## Fittings Process

PVC resin mixed with required chemical additives is fed into the hopper of injection moulding machine and gets plasticized as it passes through the barrel. The molten plastic is then injected into the mould cavity in measure quantity. After cooling, the component is ejected and the next cycle starts.

## ISO 9001 : 2015 Certified

Recognized by EGAC

## PVC Pipes Range

Type & Joints	Diameter	Standard
Pressure Socket / Non-Socket	20 to 110 mm	IS:4985

Fittings Available up to 110 mm



# PVC Pipes

Smooth Wall Closed Conduit



## Features & Benefits

### Smooth Inner Wall

Smooth inner wall minimizes frictional losses and due to precipitation



### Various Sizes Available

Available in sizes from 20 mm to 110 mm as per the standards



### Plain or Socket Option Available

Commonly supplied with plain ends or socketed at one end for solvent cement weld joint



### Close Dimensional Tolerances

Excellent characteristics of PVC provided durable pipe with close dimensional tolerances



### Available in Various Pressure Rating and Standards

Pressure - 2.5 to 16 kg/cm<sup>2</sup>  
Standards - ISO 1452, IS 4985



### Advance Manufacturing Technology

Advance manufacturing technology and our experience bring the quality products in the market

# PVC Pipes

## Additional Features

- Manufactured from high quality uPVC compound.
- Excellent corrosion and chemical resistance to most acidic and alkaline solutions.
- Light weight.
- Easy to handle and transport.
- Excellent flow characteristics.

## Applications

- Portable water supply system
- Lift & Gravity irrigation system
- Drip/Sprinkler Irrigation System
- Rain water harvesting
- Industrial process Lines
- Chemical conveyance system
- Cooling Tower & Hydro Power Station
- Tube -Well Construction
- Soil, Waste & Rain water system
- Agriculture irrigation distribution system
- Effluent treatment & conveyance pipeline system
- Centrifugal pump suction & delivery pipes.

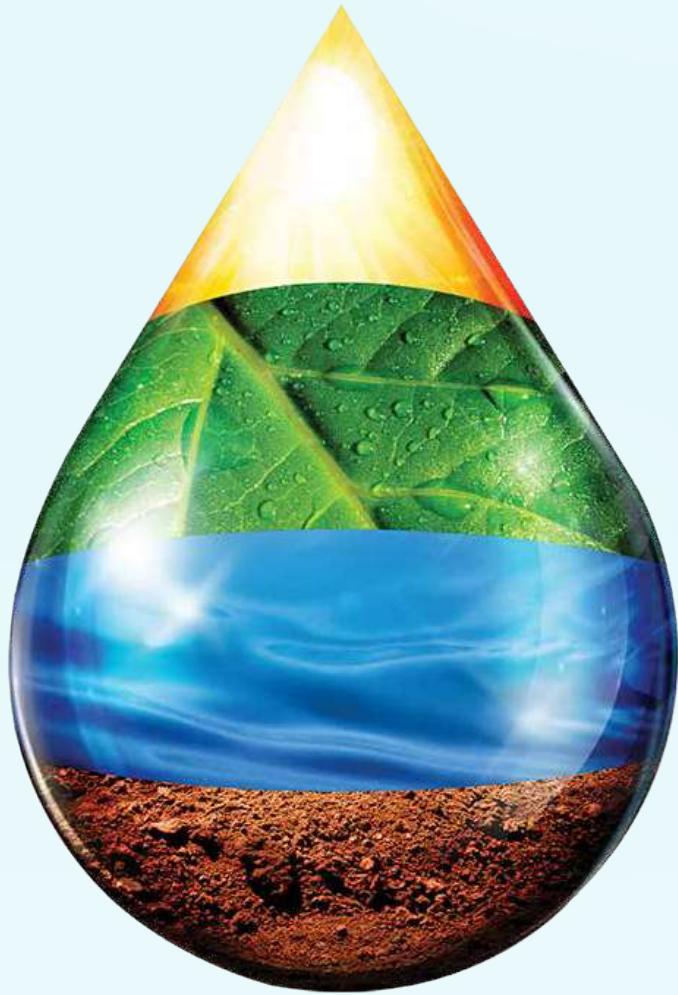
## Physical and Mechanical Charascts of UPVC

### Pipe as per IS 4985 :2000

Parameter	Units	Guaranteed Value
Dimensions	mm	As per Table 1, 2, 3, 4 & 5 of IS 4985 : 2000
Pipe colour		Light Gray or as per customer requirement
Opacity	%	Max. 0.2
Reversion Test	%	Max. $\pm$ 5
Vicat Softening Temperature	°C	Min 80
Density	g/cc	1.40 to 1.46
Sulphated Ash Content	%	Max 11
Resistance to External Blows	TIR	Max. 10%
Hydrostatic Characteristics	Kgf/cm <sup>2</sup>	As per Clause No. 11 of IS 4985 : 2000
Effect on Water	ppm	As per Clause No. 10.3 of IS 4985 : 2000

## Dimension as per IS:4985

Nominal Outside Dia	Minimum Wall Thickness in mm					Pressure Rating in kg/cm <sup>2</sup>
	2.5	4.0	6.0	8.0	10.0	
20	-	-	-	-	1.1	1.4
25	-	-	-	1.2	1.4	1.7
32	-	-	-	1.5	1.8	2.2
40	-	-	1.4	1.8	2.2	2.8
50	-	-	1.7	2.3	2.8	3.4
63	-	1.5	2.2	2.8	3.5	4.3
75	-	1.8	2.6	3.4	4.2	5.1
90	1.3	2.1	3.1	4.0	5.0	6.1
110	1.6	2.5	3.7	4.9	6.1	7.5



**We revere these elements of our universe.  
They reflect our ethos.**

GreenAgri Irrigation is striving to add value to the agri-chain.

At the same time, they produce and process a complete range of agri-products for the exacting world markets and growing domestic clientele.

The Corporation is poised to grow and attain water, food and energy security.



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