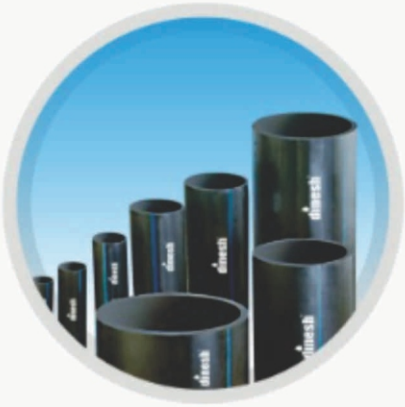
dinesh®

(AN ISO 9001 : 2015 COMPANY)
(AN ISO 14001 : 2015 COMPANY)



Best
Quality Products
From The
Beginning Itself

a commitment to the nation

THE COMPANY

An ISO 9001:2015 & 14001:2015 Certified company, Dinesh Irrigation Private Limited was established in the year 2000 with the commitment to supply quality products meeting or exceeding customer's expectations and achieving objectives of being a preferred supplier.

Situated at Jhotwara Industrial Area, Jaipur, the company annually process over 10,000 MT of various polymers & produced excellent uPVC, Drip irrigation syastems & HDPE Pipes with a unique skill, continuous technological up-gradation, professional management, testing, and persistent dedication without compromising on quality leading the entire organization to National and International name and repute.

The Company is enjoying technological advantages with latest equipped on-site laboratory at manufacturing plant. These innovative facilities are in the forward the most careful, vigilant standards of product testing based on national and international standards.

The Company yearns to innovate products features to Produce excellent product to indulge customer requirement and to meet this we have dedicated team of plastic and chemical engineers, operators and skilled labourers.

QUALITY IN-BORN : That is what forms the core of all "dinesh" Products.

dinesh®

THE INFRASTRUCTURE

HDPE PIPES & COILS

IS 4984 : 2016

HDPE Pipes are manufactured from High Density Poly Ethylene Polymers i.e., PE 63, PE 80 & PE 100, HDPE Pipes are available in sizes 16mm to 500 mm outer diameter and in pressure rating from PN 2.0 to PN 20.0.

Applications

- Water Supply Systems
- In water Supply distribution systems.
- As a replacement of G.I. Pipes in Borewell application for submersible pumps.
- For suction and delivery lines of jet pumps and centrifugal pumps.
- Domestic Gas Distributions is perfectly possible.

Industrial application

- Disposal of corrosive effluents chemicals and treated / untreated wastes.
- Acids and Alkalies can be transported through these pipes.
- For conveying edible oils, fruit pumps, juices, milk and other food products.
- As ducts for Air conditioning and ventilation.
- For transporting slurries of Iron Ore, Fly Ash etc.
- Under water (Submarine) pipe lines is feasible.

Environmental Protection

- HDPE Pipes are also used for industrial waste treatment plants and water treatment plants.
- For drainage of sewerage
- For disposal of sand slurry in dredging operations.

Advantages

- Low specific weight and flexibility
- Perfect weld ability, tough and strong
- Abrasion and wear resistant
- Good chemical and weathering resistance
- Low co-effcient of Friction

Recommendations

Depth of the Bore	Pressure Class
Up to 55 meters	4.0 kg / cm^2
Up to 90 meters	6.0 kg / cm^2
Up to 140 meters	10.0 kg / cm^2
Up to 170 meters	12.0 kg / cm^2

IS : 4984 : 2016
Standard Dinemsion Ratio & Corresponding Wall Thickness of HDPE Pipes

SDR →	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
Grade ↓	Nominal Pressure (PN) Bar									
PE 63	PN 2	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	-	-	-
PE 80	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20
PE 100	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	-

Nominal OD, d_n	Wall Thicknesses																			
	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
16	-	-	-	-	-	-	-	-	-	-	-	-			2.0	2.3	2.2	2.6	2.7	3.1
20	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7	2.8	3.2	3.4	3.9
25	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7	2.8	3.2	3.4	3.9	4.2	4.8
32	-	-	-	-	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.6	4.1	4.4	5.0	5.4	6.1
40	-	-	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.7	4.2	4.5	5.1	5.5	6.2	6.7	7.5
50	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.7	4.2	4.6	5.2	5.6	6.3	6.8	7.6	8.4	9.4
63	-	-	-	-	2.5	2.9	3.0	3.4	3.8	4.3	4.7	5.3	5.8	6.5	7.0	7.8	8.6	9.6	10.5	11.7
75	2.0	2.3	2.3	2.7	2.9	3.3	3.6	4.1	4.5	5.1	5.6	6.3	6.9	7.7	8.4	9.4	10.2	11.4	12.5	13.9
90	2.2	2.6	2.8	3.2	3.5	4.0	4.3	4.9	5.3	6.0	6.7	7.5	8.2	9.2	10.0	11.1	12.2	13.6	15.0	16.6
110	2.7	3.1	3.4	3.9	4.3	4.9	5.3	6.0	6.5	7.3	8.1	9.1	10.0	11.1	12.3	13.7	14.9	16.5	18.4	20.4
125	3.1	3.6	3.8	4.3	4.9	5.5	6.0	6.7	7.4	8.3	9.2	10.3	11.4	12.7	13.9	15.4	16.9	18.7	20.9	23.1
140	3.5	4.0	4.3	4.9	5.4	6.1	6.7	7.5	8.3	9.3	10.3	11.5	12.8	14.2	15.6	17.3	19.0	21.0	23.4	25.9
160	4.0	4.5	4.9	5.5	6.2	7.0	7.7	8.6	9.5	10.6	11.8	13.1	14.6	16.2	17.8	19.7	21.7	24.0	26.7	29.5
180	4.4	5.0	5.5	6.2	7.0	7.8	8.6	9.6	10.6	11.8	13.3	14.8	16.4	18.2	20.0	22.1	24.4	27.0	30.0	33.1
200	4.9	5.5	6.1	6.9	7.7	8.6	9.6	10.7	11.8	13.1	14.8	16.4	18.2	20.2	22.3	24.7	27.1	30.0	33.4	36.9
225	5.5	6.2	6.9	7.7	8.7	9.7	10.8	12.0	13.3	14.8	16.6	18.4	20.5	22.7	25.0	27.6	30.5	33.7	37.5	41.4
250	6.1	6.9	7.6	8.5	9.7	10.8	12.0	13.3	14.8	16.4	18.4	20.4	22.8	25.2	27.8	30.7	33.8	37.3	41.7	46.0
280	6.9	7.7	8.5	9.5	10.8	12.0	13.4	14.9	16.5	18.3	20.6	22.8	25.5	28.2	31.2	34.5	37.9	41.8	46.7	51.5
315	7.7	8.6	9.6	10.7	12.2	13.6	15.0	16.6	18.6	20.6	23.2	25.7	28.7	31.7	35.0	38.6	42.6	47.0	52.5	57.9
355	8.7	9.7	10.8	12.0	13.7	15.2	17.0	18.8	20.9	23.1	26.2	29.0	32.3	35.7	39.5	43.6	48.0	52.9	59.2	65.3
400	9.8	10.9	12.2	13.6	15.4	17.1	19.1	21.2	23.6	26.1	29.5	32.6	36.4	40.2	44.5	49.1	54.1	59.7	66.7	73.5
450	11.0	12.2	13.7	15.2	17.4	19.3	21.5	23.8	26.5	29.3	33.1	36.6	41.0	45.2	50.0	55.1	60.9	67.1	75.0	82.6
500	12.2	13.6	15.2	16.9	19.3	21.4	23.9	26.4	29.5	32.6	36.8	40.6	45.5	50.2	55.6	61.3	67.6	74.5	83.4	91.9

POLYETHYLENE PIPES FOR SEWERAGE & INDUSTRIALS CHEMICALS & EFFLUENT

IS 14333:2022

SCOPE

This standard specifies the characterstics and requirements for polyethylene pipes. These pipes are available in size from 63mm to 500mm intended to be used for following applications above or below ground :

a) Sewerage (pressure or non-pressure)
b) Industrial effluent and
c) Industrial chemicals

Standard Dinemsion Ratio & Corresponding Wall Thickness of HDPE Pipes

SDR →	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
Grade ↓	Nominal Pressure (PN) Bar									
PE 63	PN 2	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	-	-	-
PE 80	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20
PE 100	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	-

Nominal OD, d_n	Wall Thicknesses e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}	e_{Min}	e_{Max}
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
63	-	-	-	-	2.5	2.9	3.0	3.4	3.8	4.3	4.7	5.3	5.8	6.5	7.0	7.8	8.6	9.6	10.5	11.7
75	2.0	2.3	2.3	2.7	2.9	3.3	3.6	4.1	4.5	5.1	5.6	6.3	6.9	7.7	8.4	9.4	10.2	11.4	12.5	13.9
90	2.2	2.6	2.8	3.2	3.5	4.0	4.3	4.9	5.3	6.0	6.7	7.5	8.2	9.2	10.0	11.1	12.2	13.6	15.0	16.6
110	2.7	3.1	3.4	3.9	4.3	4.9	5.3	6.0	6.5	7.3	8.1	9.1	10.0	11.1	12.3	13.7	14.9	16.5	18.4	20.4
125	3.1	3.6	3.8	4.3	4.9	5.5	6.0	6.7	7.4	8.3	9.2	10.3	11.4	12.7	13.9	15.4	16.9	18.7	20.9	23.1
140	3.5	4.0	4.3	4.9	5.4	6.1	6.7	7.5	8.3	9.3	10.3	11.5	12.8	14.2	15.6	17.3	19.0	21.0	23.4	25.9
160	4.0	4.5	4.9	5.5	6.2	7.0	7.7	8.6	9.5	10.6	11.8	13.1	14.6	16.2	17.8	19.7	21.7	24.0	26.7	29.5
180	4.4	5.0	5.5	6.2	7.0	7.8	8.6	9.6	10.6	11.8	13.3	14.8	16.4	18.2	20.0	22.1	24.4	27.0	30.0	33.1
200	4.9	5.5	6.1	6.9	7.7	8.6	9.6	10.7	11.8	13.1	14.8	16.4	18.2	20.2	22.3	24.7	27.1	30.0	33.4	36.9
225	5.5	6.2	6.9	7.7	8.7	9.7	10.8	12.0	13.3	14.8	16.6	18.4	20.5	22.7	25.0	27.6	30.5	33.7	37.5	41.4
250	6.1	6.9	7.6	8.5	9.7	10.8	12.0	13.3	14.8	16.4	18.4	20.4	22.8	25.2	27.8	30.7	33.8	37.3	41.7	46.0
280	6.9	7.7	8.5	9.5	10.8	12.0	13.4	14.9	16.5	18.3	20.6	22.8	25.5	28.2	31.2	34.5	37.9	41.8	46.7	51.5
315	7.7	8.6	9.6	10.7	12.2	13.6	15.0	16.6	18.6	20.6	23.2	25.7	28.7	31.7	35.0	38.6	42.6	47.0	52.5	57.9
355	8.7	9.7	10.8	12.0	13.7	15.2	17.0	18.8	20.9	23.1	26.2	29.0	32.3	35.7	39.5	43.6	48.0	52.9	59.2	65.3
400	9.8	10.9	12.2	13.6	15.4	17.1	19.1	21.2	23.6	26.1	29.5	32.6	36.4	40.2	44.5	49.1	54.1	59.7	66.7	73.5
450	11.0	12.2	13.7	15.2	17.4	19.3	21.5	23.8	26.5	29.3	33.1	36.6	41.0	45.2	50.0	55.1	60.9	67.1	75.0	82.6
500	12.2	13.6	15.2	16.9	19.3	21.4	23.9	26.4	29.5	32.6	36.8	40.6	45.5	50.2	55.6	61.3	67.6	74.5	83.4	91.9

HDPE SPRINKLER SYSTEMS
QUICK COUPLED POLYETHYLENE PIPES & FITTINGS

dinesh®

IS 17425-2020

Worldwide HDPE Sprinkler System is found to be the best method to get maximun yield at a low cost. It has been observed that, a sprinkler system can irrigate 2 to 3 times more farm land in the same quantum of water, The sprinkler helps in cleaning the surface of the plants, thereby helping them in easy photosynthesis. This results in greater yield. In winter season, the sprinkler system saves the surface of the plants from accumulation of frozen water and in summers it saves evaporation of water to the tune of 40%. The sprinkler system spreads the water in the farmland uniformly and thus saves the plants from water clogging and scarcity. Maximum water reaches the roots of the plants.

Product Range

HDPE Sprinkler pipes are available in sizes ranging from 50mm to 200mm outer diameter and pressure rating from Class I to IV. & Nominal Pressure rating 2.5, 3.2, 4.0, 6.0 kg/cm² with complete range of fittings.

	Class 1 (2.5 kg/cm²)		Class 2 (3.2 kg/cm²)		Class 3 (4.0 kg/cm²)		Class 4(6.0 kg/cm²)	
	Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness	
DIA Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
40	-	-	-	-	-	-	2.3	2.8
50	-	-	-	-	2.0	2.4	2.9	3.4
63	-	-	2.0	2.4	2.5	2.9	3.8	4.4
75	2.0	2.4	2.5	2.9	3.0	3.4	4.5	5.2
90	2.2	2.6	2.9	3.4	3.5	4.1	5.3	6.1
110	2.7	3.2	3.4	3.9	4.2	4.8	6.5	7.4
125	3.1	3.6	3.8	4.5	4.8	5.5	7.4	8.3
140	3.5	4.1	4.3	5.0	5.4	6.1	8.3	9.3
160	3.9	4.5	4.9	5.6	6.2	7.0	9.4	10.6
180	4.4	5.0	5.5	6.3	6.9	7.8	10.6	11.2
200	4.9	5.6	6.1	7.0	7.7	8.7	11.8	13.2

Associated Accessories

- Coupled Bend
- Coupled Tee
- End Caps
- Riser Pipe
- Sprinkler Nozzle
- Pump Connecting Nipple (PCN) / Screwed Coupler
- Sprinkler attachment with foot batton

Advantages

- Saving in use of water 40% to 50%
- Saving in time, labour
- Saving in electricity
- Increase in production of crops
- Easy water distribution

DRIP IRRIGATION SYSTEM

Drip Irrigation is a type of Micro irrigation system that has to save water & to provide drop by drop Measure quantity of water to the roots of plants.

Advantages

- Reduces Pressure On The Crop And Supplies Water As Per Need
- Saving In Use of Water 60% To 70%
- Saving In Labour, Electricity & Time
- Improved Quality With More Yield
- Even Distribution of Water

IRRIGATION EQUIPMENT EMITTING PIPE SYSTEMS ROUND & FLAT

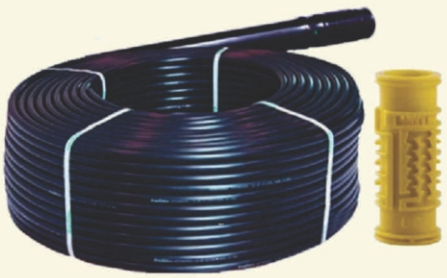
IS 13488 : 2008

Available Sizes are

- 12 mm Class - 1, 2, - 1,2 & 4 LPH Spacing - 200 to 1000 mm
- 16 mm Class - 1, 2, - 1,2 & 4 LPH Spacing - 200 to 1000 mm
- 20 mm Class - 1, 2, - 1,2 & 4 LPH Spacing - 200 to 1000 mm

All Dimensions in Millimetres

SI No.	Nominal Diameter	Inside Diameter	Tolerance on I.D.	Wall Thickness			
				Class 1 0.100 MPa	Class 2 0.125 MPa	Class 3 0.250 MPa	Class 4 0.400 MPa
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
i)	12	10.50	+ 0.20	0.4 - 0.5	0.6 - 0.7	0.8 - 1.0	1.1 - 1.3
ii)	16	14.20	- 0.00	0.5 - 0.6	0.7 - 0.9	1.0 - 1.2	1.3 - 1.5
iii)	20	18.00	+ 0.20	0.7 - 0.8	0.9 - 1.1	1.2 - 1.4	1.5 - 1.7



EMITTERS

IS 13487-2024

Available Sizes are

- 2 LPH Category B
- 4 LPH Category B
- 8 LPH Category B

LLDPE PLAIN LATERAL

IS 12786-2024

Available Sizes are

- 12mm OD CL-1, CL-2, CL-3
- 16mm OD CL-1, CL-2, CL-3
- 20mm OD CL-1, CL-2, CL-3
- 25mm OD CL-1, CL-2, CL-3
- 32mm OD CL-1, CL-2, CL-3

MINI SPRINKLER SYSTEM

IS 12232 : 1996

Advantages

- Optimum use of water
- Cost of labour in preparing/Digging canals & Channels are eliminated
- Uneven land can be irrigated
- Increases quality & quantity of the crop.

LANDSCAPE IRRIGATION

- POPUP Sprinkler 250-400 lph
- Spray Jet 150-300 lph

Polyethylene Pipes for the Supply of Gaseous Fuels

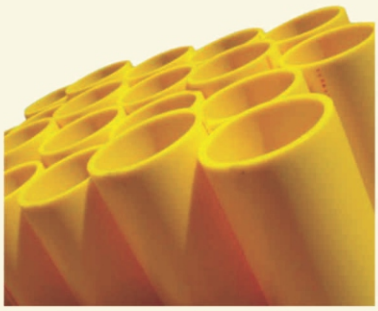
IS 14885 : 2022

Scope

This standard covers the requirements for buried polyethylene pipe from 16 mm to 630 mm in diameter with SDR 9, SDR 11, SDR 13.6 and SDR 17 and in material grades PE-80 and PE- 100, intended to be used for the supply of gaseous fuel. In addition, it specifies some general properties of the material from which these pipes are made, including a classification scheme.

Colour

The colour of the pipes shall be yellow when manufactured from PE 80 grade and Orange when manufactured from PE 100 grade.



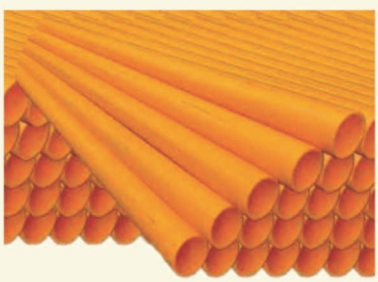


Table 6 Wall Thickness
(Clause 6.2.1)
All dimensions in millimetres

SI No.	Nominal Outside Diameter (d_n)	Minimum Wall Thickness (e_{min})			
		SDR 17	SDR 13.6	SDR 11	SDR 9
i)	16	–	2.3	3.0	3.0
ii)	20	–	2.3	3.0	3.0
iii)	25	–	2.3	3.0	3.0
iv)	32	2.3	2.3	3.0	3.6
v)	40	2.4	3.0	3.7	4.5
vi)	50	3.0	3.7	4.6	5.6
vii)	63	3.8	4.7	5.8	7.1
viii)	75	4.5	5.5	6.8	8.4
ix)	90	5.4	6.6	8.2	10.1
x)	110	6.6	8.1	10.0	12.3
xi)	125	7.4	9.2	.11.4	14.0
xii)	140	8.3	10.3	12.7	15.7
xiii)	160	9.5	11.8	14.6	17.9
xiv)	180	10.7	13.3	16.4	20.1
xv)	200	11.9	14.7	18.2	22.4

Table 7 Tolerances on Wall Thickness at Any Point
(Clause 6.2.1.1)
All dimensions in millimetres

Nominal Wall Thickness e_n		Plus Tolerance
>	≤	
(1)	(2)	(3)
2.0	3.0	0.4
3.0	4.0	0.5
4.0	5.0	0.6
5.0	6.0	0.7
6.0	7.0	0.8
7.0	8.0	0.9
8.0	9.0	1.0
9.0	10.0	1.1
10.0	11.0	1.2
11.0	12.0	1.3
12.0	13.0	1.4
13.0	14.0	1.5
14.0	15.0	1.6
15.0	16.0	1.7
16.0	17.0	1.8

uPVC
RIGID PLAIN SOCKET & ELASTOMERIC SEAL RING FIT PIPE

dinesh®

IS 4985 : 2021

This pipe is made of un-plastisized Poly Vinyl Chloride (uPVC). It is a versatile plastic having an excellent combination of strength, chemical inertness and fine resistance, which gives optimum performance at very low and very high temperatures like less than 0^0 to 60^0 C for pressure rating as per IS 4985-2021.

Benefits

- Corrosion resistant pressure pipe.
- Resistant to most acids, bases, salts, aliphatic solutions, oxidants and halogens.
- Best in chemical processing, planting, high purity applications, potable water systems, water and wastewater treatment, irrigation, agriculture and other industrial applications involving corrosive fluid transfer.
- Plumbing and drainage systems in the dwelling houses.
- Reliable leak proof joints.

SIZE - 20mm to 315mm

Type - A : Pipes for Water Supplies

Type - B : Pipes for Agriculture Use

a) 90 mm to 315 mm OD CL-1 Plain ended & socketed pipe for solvent cement jointing.

b) 63 mm to 315 mm OD Cl-2 Plain ended & socketed pipe for solvent cement jointing.

c) 40 mm to 315 mm OD CL-3 Plain ended & socketed pipe for solvent cement jointing.

d) 40 mm to 315 mm OD CL-3 Socket ended with elastomeric sealing ring.

e) 75 mm to 315 mm CL-4 Socket ended with elastomeric sealing ring.

f) 20 mm to 180 mm Cl-5 Plain Socket ended with Elastomeric Sealing Ring Socket Ended Pipe

Dimensions of Unplasticized PVC Pipes as per IS:4985-2021 for use in Water Supply & Agriculture Use (All Dimensions in Millimeters)

Nominal Outside Diameter	Mean Outside Diameter		Outside Diameter at Any Point		Well Thickness of Pipes											
					Class I 0.25 MPa		Class II 0.4 MPa		Class III 0.6 MPa		Class IV 0.8 MPa		Class V 1.0 MPa		Class VI 1.25 MPa	
Size	Mix.	Max.	Mix.	Max.	Mix.	Max.	Mix.	Max.	Mix.	Max.	Mix.	Max.	Mix.	Max.	Mix.	Max.
20	20.0	20.3	19.5	20.5	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8
25	25.0	25.3	24.5	25.5	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1
32	32.0	32.3	31.5	32.5	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7
40	40.0	40.3	39.5	40.5	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3
50	50.0	50.3	49.4	50.6	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0
63	63.0	63.3	62.2	63.8	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0
75	75.0	75.3	74.1	75.9	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9
90	90.0	90.3	88.9	91.1	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7	6.1	7.1
110	110.0	110.4	108.6	111.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7
125	125.0	125.4	123.5	126.5	1.8	2.2	2.9	3.4	4.3	5.0	5.6	6.4	6.9	8.0	8.5	9.8
140	140.0	140.5	138.3	141.7	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11.0
160	160.0	160.5	158.0	162.0	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6
180	180.0	180.6	177.8	182.2	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4	12.2	14.1
200	200.0	200.6	197.6	202.4	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7	1.36	15.7
225	225.0	225.7	222.3	227.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3	15.3	17.6
250	250.0	250.8	247.0	253.0	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17.0	19.6
280	280.0	280.9	276.6	283.4	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8	19.0	21.9
315	315.0	316.0	311.2	318.4	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9	21.4	24.7

PVC-U Pipes

Unplasticised Non-pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage & Sewerage Systems

IS 15328 : 2003

Plain ended, Socketted Pipe for Solvent Cement jointing and Socketted for Elastomeric. Sealing Ring Jointing for the sizes : Nominal OD 125 mm to 200 mm Stiffness SN 4 & SDR 41 and 110 mm to 200 mm, Stiffness SN8 & SDR 34.

Unplasticised Non-pressure PVC-U Pipes specifically for use in Underground Drainage & Sewerage Systems as per IS-15238 : 2003. These pipes are colour coded brown & are available in plain as well as elastomeric sealing ring type and either use solvent cement or slidefit respectively for installation.

Slight variation in the appearance of the colour are permitted.

Features :

- Light weight hence easy to transport.
- Easy to Install
- Leak free joints
- Smooth inner bore for better flow rate of water and prevent build up of deposits & scaling
- Lower installation & maintenance costs as compared to conventional pipes
- Ease of Installation and Handling
- Excellent Stiffness and Impact Resistance

Nominal Ring Stiffness SN kN/m²	2	4	8
Dimension Ratio (SDR)	51	41	34
Pipe Series	S 25	S20	S 16.5
Nominal Outside Diameter de mm	Wall Thickness mm		
110	—	—	3.2+0.5
125	---	3.2+0.5	3.7+0.7
160	3.2+0.5	4.0+0.6	4.7+0.7
200	3.9+0.6	4.9+0.7	5.9+0.8
250	4.9+0.7	6.2+0.8	7.3+1.0
315	6.2+0.8	7.7+1.0	9.2+1.2
400	7.9+1.0	9.8+1.2	11.7+1.4
500	9.8+1.2	12.3+1.4	14.6+1.7
630	12.3+1.2	15.4+1.7	18.4+1.9

SWR PIPES & FITTINGS

IS 13592 : 2013

SWR Pipes and fittings are manufactured by compounding uPVC resin along with chemicals such as heat stabilizers, processing aids, lubricants, benzotriazole, phosphite based UV stabilizers pigments and carbon black UV stabilizers which noticeably improves the light stability of uPVC, prevents yellowing, imbriliflement and loss of mechanical strength.

Product Range

Selfit : These pipes have bell type socket at one end. Available in 40 to 160 mm sizes in type A and B.
Ring-o-socket : These pipes have ring type socket at one end. Available in 40 to 160 mm sizes in type A and B.

Advantages

- Easy to install
- Highly resistant to chemical, acid, alkalies, cement, lime, oils and domestic affluents.
- Free Flow and durable
- Unaffected by termite, bacteria and fungus.

Pipe Specification (As per IS:13592-2013)

Nominal Outside Diameter (in mm)	Mean Outside Diameter (in mm)		Wall Thickness (mm)			
			Type A		Type B	
	Min.	Max.	Min.	Max.	Min.	Max.
40	40.0	40.3	1.8	2.2	3.2	3.8
50	50.0	503	1.8	2.2	3.2	3.8
63	63.0	63.3	1.8	2.2	3.2	3.8
75	75.0	75.3	1.8	2.2	3.2	3.8
90	90.0	90.3	1.9	2.3	3.2	3.8
110	110.0	110.4	2.2	2.7	3.2	3.8
125	125.0	125.4	2.5	3.0	3.2	3.8
140	140.0	140.5	2.9	3.4	3.6	4.2
160	160.0	160.5	3.2	3.8	4.0	4.6

MDPE PIPES ISO : 4427 : 2019 (E)

Poly Ethylene Piping Systems is intended to be used for water supply & for human consumption including the conveyance of raw water.

Material

The raw material used is Medium Density Poly Ethylene (MDPE) PE-80 and PE 100 is used for the production of MDPE Pipes.

Product Range

These Pipes are manufactured in the range of 16mm to 500mm (Outer Diameter) in all pressure ratings. These pipes conform to various International standards such as ISO 4427, DIN 8074/75 and BIS Standard IS:14885.

-Wall thicknesses

	Pipe series									
	SDR 6	SDR 7.4	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	SDR 33	SDR 41
	S 2.5	S 3.2	S 4	S 5	S 6.3	S 8	S 10	S 12.5	S 16	S 20
	Nominal pressure (PN) bar									
PE 40	—	PN 10	PN 8	PN 6	PN 5	PN 4	PN 3.2	PN 2.5	—	—
PE 80	PN 25	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6	PN 5	PN 4	PN 3.2
PE 100	—	PN 25	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6	PN 5	PN 4

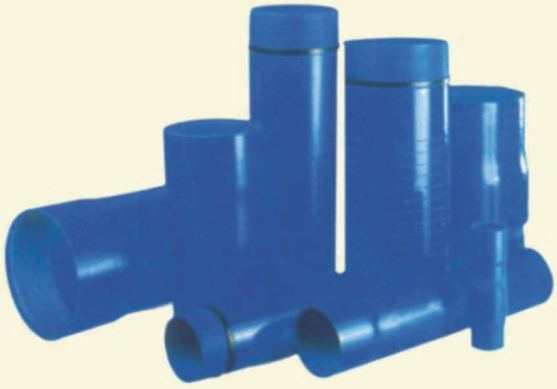
Nominal Size		Wall thicknesses[b] mm																		
	e_{min}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}	e_{max}	e_{min}
16	3.0	3.4	2.3[C]	2.7	2.0[C]	2.3	—	—	—	—	----	—	—	—	—	—	—	—	—	—
20	3.4	3.9	3.0	3.4	2.3[C]	2.7	2.0[C]	2.3	—	—	—	—	—	—	—	—	—	—	—	—
25	4.2	4.8	3.5	4.0	3.0	3.4	2.3[C]	2.7	2.0[C]	2.3	—	—	—	—	—	—	—	—	—	—
32	5.4	6.1	4.4	5.0	3.6	4.1	3.0	3.4	2.4[C]	2.8	2.0[C]	2.3	—	—	—	—	—	—	—	—
40	6.7	7.5	5.5	6.2	4.5	5.1	3.7	4.2	3.0	3.5	2.4[C]	2.8	2.0[C]	2.3	—	—	—	—	—	—
50	8.3	9.3	7.7	6.9	5.6	6.3	4.6	5.2	3.7	4.2	3.0	3.4	2.4[C]	2.8	2.0[C]	2.3	—	—	—	—
63	10.5	11.7	8.6	9.6	7.1	8.0	5.8	6.5	4.7	5.3	3.8	4.3	3.0	3.4	2.5[C]	2.9	—	—	—	—
75	12.5	13.9	10.3	11.5	8.4	9.4	6.8	7.6	5.6	6.3	4.5	3.6	5.1	4.1	2.9[C]	3.3	—	—	—	—
90	15.0	16.7	12.3	13.7	10.1	11.3	8.2	9.2	6.7	7.5	5.4	6.1	4.3	4.9	3.5	4.0	—	—	—	—
110	18.3	20.3	15.1	16.8	12.3	13.7	10.0	11.1	8.1	9.1	6.6	7.4	5.3	6.0	4.2	4.8	—	—	—	—
125	20.8	23.0	17.1	19.0	14.0	15.6	11.4	12.7	9.2	10.3	7.4	8.3	6.0	6.7	4.8	5.4	—	—	—	—
140	23.3	25.8	19.2	21.3	15.7	17.4	12.7	14.1	10.3	11.5	8.3	9.3	6.7	7.5	5.4	6.1	—	—	—	—
160	26.6	29.4	21.9	24.2	17.9	19.8	14.6	16.2	11.8	13.1	9.5	10.6	7.7	8.6	6.2	7.0	—	—	—	—
180	29.9	33.0	24.6	27.2	20.1	22.3	16.4	18.2	13.3	14.8	10.7	11.9	8.6	9.6	6.9	7.7	—	—	—	—
200	33.7	36.7	27.4	30.3	22.4	24.8	18.2	20.2	14.7	16.3	11.9	13.2	9.6	10.7	7.7	8.6	—	—	—	—
225	37.4	41.3	30.8	34.0	25.2	27.9	20.5	22.7	16.6	18.4	13.4	14.9	10.8	12.0	8.6	9.6	—	—	—	—
250	41.5	45.8	34.2	37.8	27.9	30.8	22.7	25.1	18.4	20.4	14.8	16.4	11.9	13.2	9.6	10.7	—	—	—	—
280	46.5	51.3	38.3	42.3	31.3	34.6	25.4	28.1	20.6	22.8	16.6	18.4	13.4	14.9	10.7	11.9	—	—	—	—
315	52.3	57.7	43.1	47.6	35.2	38.9	28.6	31.6	23.2	25.7	18.7	20.7	15.0	16.6	12.1	13.5	9.7	10.8	7.7	8.6
355	59.0	65.0	48.5	53.5	39.7	43.8	32.2	35.6	26.1	28.9	21.1	23.4	16.9	18.7	13.6	15.1	10.9	12.1	8.7	9.7
400	–	–	54.7	60.3	44.7	49.3	36.3	40.1	29.4	32.5	23.7	26.2	19.1	21.2	15.3	17.0	12.3	13.7	9.8	10.9
450	–	–	61.5	67.8	50.3	55.5	40.9	45.1	33.1	36.6	26.7	29.5	21.5	2.8	17.2	19.1	13.8	15.3	11.0	12.2
500	--	--	--	--	55.8	61.5	45.4	50.1	36.8	40.6	29.7	32.8	23.9	26.4	19.1	21.2	15.3	17.0	12.3	13.7

uPVC BLUE CASING PIPE

It is made of unplasticised Poly Vinyl Chloride, Suspension grade, K value 65-67, a bulk polymer suitable for pressure pipes, uPVC has properties which allow it to be used as a replacement for any often advantage over traditional material such as cast iron, asbestos cement etc. available in Type CM, DN 100-200 mm, Type CS, DN 150-200 mm & CD, DN 150-200 mm.

Advantages

- Smooth bore for better flow properties.
- Do not support bacterial growth.
- Chemical and Corrosion resistance.
- High Impact strength.
- Easy installation
- Long lasting.
- Light weight
- Elegance
- Overall economy



Dimensions of uPVC casing Pipes CS as per IS : 12818-2010 (suitable for wells depth upto 80 meters)

Size (in Inch)	Nominal Diameter (DN (mm)	Outer Diameter of Pipe (mm)		Outer Diameter over connection	Wall Thickness (mm)	
		Min.	Max.	Min.	Min.	Max.
6	150	165.0	165.4	173.0	5.7	6.5
7	175	200.0	200.5	212.0	7.0	7.8
8	200	225.0	225.5	238.0	7.6	8.8
10	250	280.0	280.5	292.0	9.6	11.0

Dimensions of uPVC casing Pipes CM as per IS : 12818-2010 (suitable for wells depth upto 250 meters)

Size (in Inch)	Nominal Diameter (DN (mm)	Outer Diameter of Pipe (mm)		Outer Diameter over connection	Wall Thickness (mm)	
		Min.	Max.	Min.	Min.	Max.
2	50	60.0	60.2	64	4.0	4.6
3	80	88.0	88.3	94	4.0	4.6
4	100	113.0	113.3	120	5.0	5.7
5	125	140.0	140.4	150	6.5	7.3
6	150	165.0	165.4	177	7.5	8.5
7	175	200.0	200.5	215	8.8	9.8
8	200	225.0	225.5	243	10.0	11.2
10	250	280.0	280.5	298	12.5	14.0

PLB HDPE DUCTS

Material

Permanently Lubricated Ducts are manufactured by co-extrusion technique and the base raw material used is High Density Poly Ethylene.

The grade of raw material is ultra violet grade conforming to IS:7328-1992 and IS:2523 or ISO:1183 & ISO:1133 and is designated as PEELA 50T-012 (CACT Approved) and inner layer is permanently Lubricated material DOW CORNING grade SOMB002

Application

Telecommunication, Electric cable installation, Railways Information Network, Computer Networking, Cable Service Providers, Broad Bank Network etc.

Advantages

- Faster and Easy Installation of cable with lesser manpower
- Feasibility of longer lengths installation
- Easy movement of cable through bends
- Reduction in number of joints due to longer lengths of pipes
- Reduction in installation cost, maintenance and future upgradation
- Existing cable can be deployed after de blowing from the duct
- The pipes are non toxic in nature and hence safe to handle

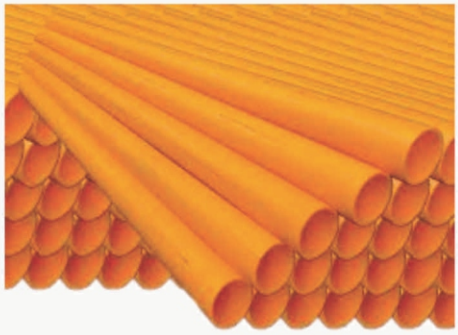
Dimensions

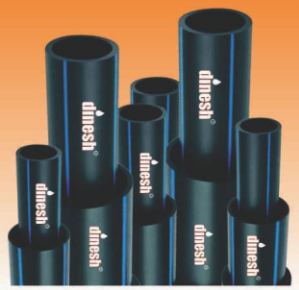
(DOT & ISO) All sizes are in mm

DIA (Min)	DIA (Max)	Ovality (Max)	Wall Thickness (Min.)	Wall Thickness (Max.)	Weight / Mtr. Average	Inner Layer Thickness	
						Min. (mm)	Max (mm)
32	32.3	1.3	2.8	3.2	0.262	0.24	0.36
40	40.4	1.4	3.3	3.7	0.385	0.28	0.42
50	50.5	1.5	3.7	4.3	0.555	0.32	0.48

Associated Accessories & Tools

1. Plastic Coupler : To joint two duct lengths air tight and water tight.
2. End Plug : To seal duct ends prior to the installation of the cable.
3. Cable Sealing Plug : To seal duct after installation of the cable.
4. End Cap : Made of hand rubber, fitted on both ends of duct coil after manufacturing
5. Duct Cutter : To cut duct cleanly and with square ends.
6. C Spanner : To tighten plastic coupler.





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