

Since
1989



HDPE PIPES

**PLB HDPE
DUCT PIPES**

**LLDPE
LATERAL PIPES**

 Available in 16mm to 250mm Dia

BEST IN CLASS



LEAD FREE



VENUS Plastic Industries, the manufacturing wing of VENUS GROUP was set up in 1989. Venus Plastic Industries is one of the leading manufacturers of High Density Poly Ethylene (HDPE) Pipes, Permanently lubricated HDPE Optic fibre cable ducting Pipes, Linear low-density polyethylene (LLDPE) Pipes in South India. The manufactured pipes are sold in name of "VENUS", which is to ISI standards. Our factory is ideally located in the industrial estate of Dindigul for easy access and logistics.

Quality and durability are the areas where we never compromise. We have a fully equipped In-house testing laboratory, which ensures quality is strictly adhered to, right from raw material purchase till finished product dispatch.

VENUS HDPE Pipes are made from thermo plastic polymers that enable resilient, durable, and cost-effective solutions for the conveyance of potable water, irrigation, and bore-well applications.

VENUS HDPE pipes are manufactured from 100% virgin superior grade HDPE (High-Density Polyethylene) as per BIS specifications – IS 4984 & available in raw material grades PE-63, PE 80, and PE 100 in various pressure rating classes in a state of the art manufacturing facility.

Key Features

- Manufactured from 100% virgin raw material.
- Superior Hydrostatic Pressure strength
- Excellent Slow Crack Growth Resistance properties
- Resistant to bacterial & chemical build-up
- Fusion welded joints for leak-free piping systems
- Hygienic Water supplies due to low migration properties
- Anti Corrosive, Non-Toxic
- UV Resistant



Applications



POTABLE WATER SUPPLY



GAS TRANSMISSION



DRIP & SPRINKLER IRRIGATION



BORE WELLS



SEWERAGE/DRAINAGE



INDUSTRIAL EFFLUENTS



CHEMICAL INDUSTRIES

Quality Assurance

Well equipped laboratory with standard testing machines for
Dimensional check | Internal pressure creep rupture test | Longitudinal reversion
Carbon black content & dispersion | Melt flow rate | Oxidation induction time
Overall migration | Density | Tensile strength | Elongation at break | Slow crack growth rate

Advantages of Venus HDPE Pipes

Light Weight

Helps easy handling and speedy installation of pipes.

Flexibility

Pipes up to 110 mm dia can be supplied in coil form which makes laying of pipe much faster and economical.

Toughness and Flexural Strength

Due to excellent impact resistance, it can withst and various loads like earth movement, traffic load etc. It can be safely used for low temperature up to -40°C.

Smooth Inner Surface

This reduce frictional losses and hence saves energy.

Chemical Resistance

Excellent resistance to most corrosive chemicals, acids and alkalies.

Abrasion Resistance

Capable of conveying abrasive materials like slurry, sand, boiler ash, ores, food grains, cola, etc.

Size Range (O.D)	16 mm to 250 mm
Material Grade	PE 63, PE 80 & PE 100
Pressure Class	4 Kg/cm ² to 12.5 Kg/cm ²
Standard Dimension Ratio	SDR 21, SDR 17, SDR 13.6, SDR 11, SDR 9, SDR 7.4 & SDR 6
Colour	Black with Blue strips
Availability	Coils up to 110 mm & above 125 mm straight lengths

Thermal Conductivity

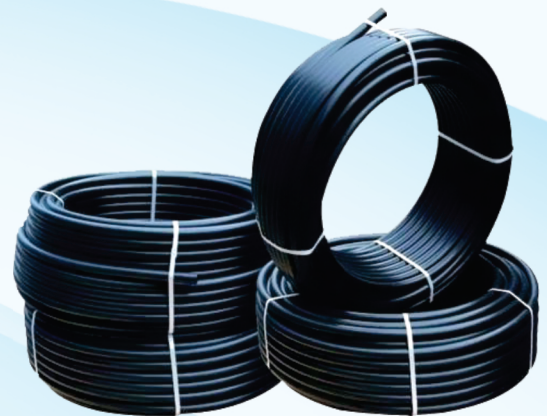
11-12.4x10* Cal/Sec.cm. °C

Electrical Properties

Dielectric strength 800 kV/cm²

Service Life

Almost maintenance free for decades.



Venus LLDPE Lateral Pipes

Salient Features ::

- Manufactured from virgin LLDPE using “State of the Art Extrusion technology”.
- Durable laterals with minimum dimensional tolerances.
- Well finished internal surface minimises frictional losses.

Sizes Available:

12mm, 16mm, 20mm Both Inline and Online.

HDPE Pipe Standard

WALL THICKNESS CHART FOR HDPE PIPE AS PER IS: 4984

SDR	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6										
	Nominal Pressure, PN in 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	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	-										
Nominal Dia (OD)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	2.1	2.2	2.5	2.7	3.1
20	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.2	2.3	2.6	2.7	3.1	3.4	3.8
25	-	-	-	-	-	-	-	-	-	1.9	2.2	2.3	2.6	2.8	3.2	3.4	3.8	4.2	4.7	
32	-	-	-	-	-	-	-	1.9	2.2	2.4	2.7	2.9	3.3	3.6	4.1	4.4	4.9	5.4	6.0	
40	-	-	-	-	1.9	2.2	2.4	2.7	3.0	3.4	3.7	4.2	4.5	5.1	5.4	6.0	6.7	7.5		
50	-	-	-	2.0	2.3	2.4	2.7	3.0	3.4	3.7	4.2	4.6	5.2	5.6	6.3	6.8	7.6	8.4	9.3	
63	-	-	-	2.5	2.9	3.0	3.4	3.7	4.2	4.7	5.3	5.8	6.5	7.0	7.8	8.6	9.6	10.5	11.7	
75	1.9	2.2	2.3	2.6	2.9	3.3	3.6	4.1	4.5	5.1	5.6	6.3	6.9	7.7	8.4	9.3	10.2	11.3	12.5	13.9
90	2.2	2.5	2.8	3.2	3.5	4.0	4.3	4.8	5.3	5.9	6.7	7.5	8.2	9.1	10.0	11.1	12.2	13.5	15.0	16.6
110	2.7	3.1	3.4	3.8	4.3	4.8	5.9	6.6	6.5	7.3	8.1	9.0	10.0	11.1	12.3	13.6	14.9	16.5	18.4	20.3
125	3.1	3.5	3.8	4.3	4.8	5.4	6.0	6.7	7.4	8.2	9.2	10.2	11.4	12.7	13.9	15.4	16.9	18.7	20.9	23.1
140	3.5	4.0	4.3	4.8	5.4	6.0	6.7	7.5	8.3	9.2	10.3	11.4	12.8	14.2	15.6	17.3	19.0	21.0	23.4	25.8
160	3.9	4.4	4.9	5.5	6.2	6.9	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	4.9	5.5	6.2	7.0	7.8	8.6	9.6	10.6	11.8	13.3	14.7	16.4	18.1	20.0	22.1	24.4	26.9	30.0	33.1
200	4.9	5.5	6.1	6.8	7.7	8.6	9.6	10.7	11.8	13.1	14.7	16.3	18.2	20.1	22.3	24.6	27.1	29.9	33.4	36.8
225	5.5	6.2	6.9	7.7	8.7	9.7	10.8	12.0	13.3	14.7	16.6	18.4	20.5	22.7	25.0	27.6	30.5	33.7	37.5	41.4
250	6.1	6.8	7.6	8.5	9.7	10.8	12.0	13.3	14.7	16.3	18.4	20.3	22.8	25.2	27.8	30.7	33.8	37.3	41.7	46.0

VENUS PLB HDPE DUCT PIPES

- Venus Permanently Lubricated HDPE Ducts has an inner Layer of solid Permanent Lubricant which ensures that internal co efficient of Friction does not exceed 0.06
- Low Co-efficient of friction enables easy & fast laying of optic fibre cables at low cost
- Venus Ducts can be used in extreme hot & cold climates without any adverse effect (-15°C to +50°C)
- Retains Physical Properties for Life Long
- Available in 32mm,40mm & 50mm
- Available colour options: Yellow, Orange, Green, Black, Blue, Red & Other colours on specific orders

Dimensions of Permanently Lubricated HDPE Ducts

As per Telecommunication Engineering Centre Specification

Particulars	40 mm / 33 mm	32 mm / 26 mm
Outside Diameter	40 mm + 0.4 mm	32 mm + 0.3 mm
Wall Thickness	3.5 mm + 0.2 mm	3.0 mm ± 0.2 mm
Standard Length	1000 ± 100 meters	1000 + 100 meters
Maximum outer Diameter of cable that can be installed by blowing Technique.	16 mm	12 mm

VENUS PLASTIC INDUSTRIES

An ISO 9001:2015 Company

FACTORY: Shed - 4 & 5, Industrial Estate, Dindigul - 624 003.

OFFICE: 115R, Pensioner Street, Dindigul - 624 001.

 92443 12366 / 92443 06366.

Mfrs. of: VENUS HDPE PIPES, VENUS PLB-HDPE DUCTS & VENUS LLDPE LATERAL PIPE.