Har Ghar Jal
Jal Jeevan Mission

IS : 4984

Small Pipes Big Solutions

HDPE Innovation for Every Project

An ISO 9001 : 2015 Certified Company



ADVIKA
PIPES

ABOUT US

We "ADVIKA PIPES" Established In 2024. We are Manufacturing HDPE Pipe / MDPE Pipe/PLB Duct Pipe/DWC Pipe/HDPE/Compression/HDPE Fabricated Fittings under brand name "ADVIKA PIPES" we are one of the fastest growing manufactures in the country with quality & competitive price.





MISSION

We will be market-driven, efficient and profitable. We will be driven by our commitment to continuos quality Improvement and by building on existing strengths we will develop new competencies.

VISION

We shall operate in existing and new businesses, which profitably capitalize on the "ADVIKA PIPES" brand and our corporate image of reliability and integrity, our objective is to delight our customers both in India and Abroad. We shall achieve this objective through continuous improvement in quality cost and customer services.



CORPORATE PROFILE

ADVIKA PIPES, Success has always been flowing in our pipelines!!

ADVIKA PIPES, is established in 2024 by the people who master all the intricate techniques and subtle nuances of their business having an outstanding experience of more then 10 years to their credit in dealing with plastic and related materials. Hence they know every minute detail of the product.

Under the guidance of our founder Rajesh Agrawal and dynamic & exceptionally impeccable leadership of the Chairman and the Managing Director, has made ADVIKA PIPES A brand leader company in the cosmic market. Company has now emerged as a market leader in manufacturing of high grade HDPE, MDPE, LLDPE, PLB, UPVC and PPR pipes, under the registered brand, customer's faith and confidence is a testimony for them to prove their company's steadfast nature and reliable quality of products. The company produces a stupendous product range in the field of HDPE Pipe, MDPE Pipe, Fibre Cables, PLB Duct, DWC Duct & Telecommunications Duct etc.

ADVIKA PIPES is licensed by **Bureau of Indian Standard (BIS) to Mark ISI & ISO Certification** on different range of products having different licence number. Moreover, is an ISO: 9001-2015 certified organization with a standing of total commitment towards satisfying their customers with best quality products.

ADVIKA PIPES through its vision of learning and constant innovation, has become a premier name in the industrial, agricultural, infrastructure, domestic and telecommunication fields.

ADVIKA PIPES manufactured in state-of-the-art plant at Indore in India, with the latest manufacturing technology and under strict quality control, brand product have made their marks in various applications, be it water supply, gas and petrol transport, sewage disposal or cable ducting.

For ADVIKA PIPES, a satisfied customer is the mark of it's success.

PRODUCT RANGE

Sr. No.	Product Description	IS : Code	Size
1.	HDPE Pipes/Coil	IS:4984	PE63, PE80 & PE100 Grades in all Class & Sizes up to 110mm
2.	HDPE Pipes	IS:4984	PE63, PE80 & PE100 Grades in all Class & Sizes up to 395mm
3.	HDPE PLB POWER DUCT	NEMA-TC7/ASTM	PE63, PE80 & PE100 Grades in all SDR & Sizes up to 200mm
4.	PLB Duct	DOT Specification	25/21mm, 32/26mm, 40/33mm, 40/34.2mm, 32/26mm, 50/42mm, 40/32mm, upto 110mm
5.	Sprinkler Pipe	IS:14151	75mm, 90mm & 110mm Class-1(2.5kg). 63mm Class-2(3.2kg)
6.	MDPE Pipes	ISO: 4427	PE80 & PE100 Grades in all Class & Sizes up to 110mm





HDPE PIPES FOR WATER SUPPLY

Construction:

Advika HDPE Pipes & coils are being manufacture by High Density Polyethylene polymers in all grades i.e. PE-63, PE-80 & PE-100 conforming to IS: 4984-2016 with latest amendments.

Size Range:

20mm to 315mm OD

Sr. No.	Size Range	Length
1.	20mm to 50mm	100m, 200m, 300m, 500m & 100m coils
2.	63mm to 75mm	100m, 200m, 300m coils
3.	90mm to 110mm	100m coils & Straight length of 6m & 12m
4.	125mm to 315mm	In Straight length of 6m & 12m

- Nominal Pressure from PN-2 TO PN-20
- The standard dimension ratio from SDR-41 TO SDR-6
- PE Grades: PE-63, PE-80 & PE-100

CHARACTERISTICS OF PE RESIN AS FRANULES (TABLE)

Sr. No.	Characteristics	Units	Requirement	Test Parameters	Test Method
1.	Base Density	Kg/m3	930-960	27° C	IS 7328
2.	Melt Flow Rate	-	0.2 to 1.1 (Both Inclusive)	190° C using a 5 kg mass	IS 2530
3.	Thermal Stability (Odixation & Induction Time)	Minutes	≥20	200° C Isothermal	Annexure-B IS:4984-2016



STANDARD DIMENSION RATIO (SDR) AND CORRESPONDING WALL THICKNESS (E) OF PIPES

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) 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	-

Wall Thickness

Nominal OD, d_n mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm	e_{Min} mm	e_{Max} mm
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

Notes :

- PN Values are based on C = 1.47 : 0.1 mpa = 1.0 kgf/cm2.
- Tolerances calculated from (0.1 emin +0.1) mm rounded up to the next 0.1 mm.
- All pressure ratings are calculated at 27^{o} C and rounded up to nearest pressure class.
- Considering operational problems, maximum wall thickness of pipes are considered around 130mm.

PLB HDPE TELECOM DUCTS

CONSTRUCTION :

ADVIKA PIPES. Permanently Lubricated HDPE Ducts are formed by co-extrusion technique and are used for laying Optical Fiber Cables as underground ducting / conduits.

MATERIAL: The base raw material being used for the manufacturing Permanently Lubricated Ducts is High Density Poly Ethylene. The grade of raw material is ultra violet grade and is confirming to IS:4984-2016 & IS:2530 or ISO:1183 & ISO:1133 and is designated as PEELA-50T-012 (CACT Approved) and inner layer permanently lubricated material DOW CORNING grade-50MB002.

APPLICATIONS: Telecommunication Computer Network Automatic Signaling, Railways Information Network. Highways, Cable Service Providers, Broad Band networks, Electric cable installation etc.

ADVANTAGES:

- Reduction of stress on cable during installation
- Installation of Longer lengths made feasible.
- Negotiations of cable movement through bends and deflections are easier.
- Reduction of number of joints and minimizes number of splices.
- Faster and easy installation of cable with lesser man power.
- Reduction of overall cost of installation, maintenance and future upgrades.
- Retains it's properties throughout it's life
- Existing cables can be deployed after de-blowing from the duct.
- This does not have toxic and dermatic hazards and is safe handling.





DIMENSIONS : (As per TEC/RDSO Specification) All sizes

Sr.No.	Duct Size (mm)	Outer Dia	Ovality (Max)	Wall Thickness	Standard lenght
1.	25/20	25 ± 0.2	1.0	2.5 ± 0.2	500/1000 Mtrs.
2.	32/26	32 ± 0.3	1.3	3.0 ± 0.2	500/1000 Mtrs.
3.	40/33	40 ± 0.4	1.4	3.5 ± 0.2	500/1000 Mtrs.
4.	50/42	50 ± 0.5	1.4	4.0 ± 0.3	500/1000 Mtrs.
5.	63/50	63 ± 0.6	1.5	6.5 ± 0.4	6/12/50/500 Mtrs.
6.	110/96	110 ± 1.0	2.2	6.3 ± 1.0	6/12/50/100 Mtrs.

PROPERTIES

Sr. No.	Test Description	Test Method	Test Requirement
1.	Dimension (a) Outside Diameter (b) Ovality (c) Wall Thickness	TEC/GR/TX/CDS-008/03/Mar-11	As Per Table
2.	Visual Inspection	TEC/GR/TX/CDS-008/03/Mar-11	As Per Specifications
3.	Density at 23°C GMS/CC	IS: 7328, IS: 2530	0.940-0.958
4.	Melt Flow Index at 190°C	IS: 2530	0.2 to 1.1
5.	Tensile Strength at yield	IS: 14151-Part-1 as TMD 638	Min 20N/mm²
6.	Elongation at break	IS: 14151-Part-1 as TMD 638	Min 500%
7.	Co-efficient of friction	Annexure-II TEC/GR/TX/CDS-008/03/Mar-11	<0.06
8.	Impact strength	IS: 12235 (Pt.-9)	No Split or crack
9.	Oxidation Induction time	Annexure-I TEC/GR/TX/CDS-008/03/Mar-11	> 30 Minutes
10.	Environmental Stress & Crack resistance	ASTMD-1.693	No Split or Crack
11.	Reversion	IS: 4984	Difference 3%
12.	Internal Hydrostatic Pressure creep rupture	IS: 4984 & ISO: 1167	Passes the test







HDPE CONDUITS

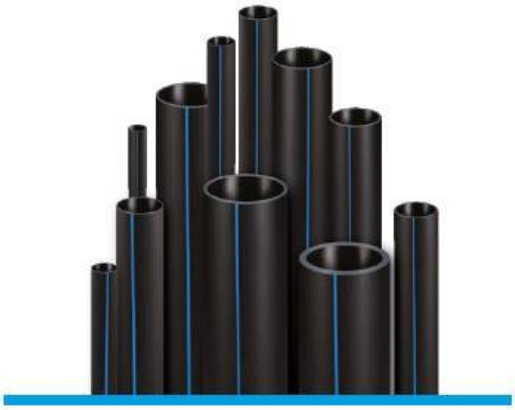
High-Density Polyethylene (HDPE) Conduits

Advika telecommunication conduits provide necessary security and protection for telecommunication and electrical cables against harsh and high-pressured environments.

The company also produces customized ducts in coils which provide convenience in installation and for meeting specific construction needs. Advika even provides sequential foot markings for ease of installation.

Advantages:

- High tensile strength to endure heavy external Loads.
- Long-term strength for increased life and performance
- Lower installation cost
- Resistance to corrosive chemicals and aggressive soils
- Moisture proof and watertight when fusion welded
- No biological growth
- Low resistance to pulled-in cable
- Color coding for easy identification
- This does not have toxic and dermatic hazards and is safe handling.





SMOOTH WALL CONDUITS

Product Features and Attributes:

- Cables pre-installed in HDPE
- Standard wall thickness
- Available in sizes
- Sizes: 16-1200 mm
- Low-sliding friction to aid in the pulling and jetting of Micro-Guard. and micro-cables
- High tensile strength material for longer pulling distances
- Variety of colors/ stripes for identification - paralleling available
- Sequential-marked meters
- UV-formulated material for outside storage
- Complete line of fittings and accessories

HDPE PIPES FOR SEWERAGE

Construction:

Advika Pipes manufactures HDPE pipes & coils by High Density Polyethylene Polymers in all material grades i.e. PE-63, PE-80 & PE-100 conforming to IS: 14333-1996 with latest amendments.

Size Range : 63mm to 315mm OD

Sr. No.	Size Range	Length
1.	63mm to 75mm	100m, 200m & 300m coils
2.	90mm to 110mm	100m coil straight length of 6m & 12m
3.	125mm to 315mm	In straight length of 6m & 12m

Wall Thickness of Pipes (PE-80) for pressure ratings of IS:14333-1996 with latest amendments.

Nominal	PN-2.5		PN-4		PN-6		PN-8		PN-10		PN-12.5		PN-16	
OD mm	Mini.	Max.	Mini.	Max.	Mini.	Max.	Mini.	Max.	Mini.	Max.	Mini.	Max.	Mini.	Max.
63	-	2.8	3.0	3.5	4.4	5.1	5.8	6.6	7.0	7.9	8.6	9.7	10.5	11.8
75	2.3	3.3	3.6	4.2	5.3	6.1	6.9	7.8	8.4	9.5	10.2	11.5	12.5	14.0
90	2.8	4.0	4.3	5.0	6.3	7.2	8.2	9.3	10.0	11.0	12.2	13.7	15.0	16.7
110	3.4	4.4	5.3	6.1	7.7	8.7	10.0	11.2	12.3	13.8	14.9	16.6	18.4	20.5
125	3.8	5.0	6.0	6.8	8.8	9.9	11.4	12.8	13.9	15.5	16.9	18.8	20.9	23.2
140	4.3	5.6	6.7	7.6	9.8	11.0	12.8	14.3	15.6	17.4	19.0	21.1	23.4	26.0
160	4.9	6.3	7.7	8.7	11.2	12.6	14.6	16.3	17.8	19.8	21.7	24.1	26.7	29.6
180	5.5	7.0	8.6	9.7	12.6	14.1	16.4	18.3	20.0	22.2	24.4	27.1	30.0	33.2
200	6.1	7.8	9.6	10.8	14.0	15.6	18.2	20.3	22.3	24.8	27.1	30.1	33.4	37.0
225	6.9	8.6	10.8	12.1	15.7	17.5	20.5	22.8	25.0	27.7	30.5	33.8	37.5	41.5
250	7.6	9.6	12.0	13.4	17.5	19.5	22.8	25.3	27.8	30.8	33.8	37.4	41.7	46.1
280	8.5	10.8	13.4	15.0	19.6	21.8	25.5	28.3	31.2	34.6	37.9	41.9	46.7	51.6
315	9.6	12.1	15.0	16.7	22.0	24.4	28.7	31.8	35.0	38.7	42.6	47.1	52.5	58.0
355	10.8	14.3	17.0	18.9	24.8	27.5	32.3	35.8	39.5	43.7	48.0	53.0	59.2	65.4
400	12.2		19.1	22.2	28.0	32.4	36.4	42.1	44.5	51.4	54.1	62.5	-	-

Wall Thickness of Pipes (PE-100) for pressure ratings of IS:14333-1996 with latest amendments.

Dia	PN-6		PN-8		PN-10		PN-12.5		PN-16	
DN	Mini.	Max.	Mini.	Max.	Mini	Max.	Mini.	Max.	Mini.	Max.
63	3.6	4.2	4.7	5.4	5.8	6.6	7.0	7.9	8.7	9.8
75	4.3	5.0	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	5.1	5.9	6.7	7.6	8.2	9.3	10.0	11.2	12.5	14.0
110	6.3	7.2	8.2	9.3	10.0	11.2	12.3	13.8	15.2	17.0
125	7.1	8.1	9.3	10.5	11.4	12.8	13.9	15.5	17.3	19.3
140	8.0	9.0	10.4	11.7	12.8	14.3	15.6	17.4	19.4	21.6
160	9.1	5.3	11.9	13.3	14.6	16.3	17.8	19.8	22.1	24.6
180	10.2	11.5	13:4	15.0	16.4	18.3	20.0	22.2	24.9	27.6
200	11.4	12.8	14.9	16.6	18:2	20.3	22.3	24.8	27.6	30.6
225	12.8	14.3	16.7	18.6	20.5	22.8	25.0	27.7	31.1	34.5
250	14.2	15.9	18.6	20.7	22.8	25.3	27.8	30.8	34.5	38.2
280	15.9	17.7	20.8	23.1	25.2	28.3	31.2	34.6	38.7	42.8
315	17.9	19.9	23.4	26.0	28.7	31.8	35.0	38.7	43.5	48.1
355	20.1	22.4	26.3	29.2	32.3	35:8	39.5	43.7	49.0	54.1
400	22.7	26.4	29.7	34.4	36.4	42.1	44.5	51.4	55.2	63.7

MDPE PIPES

Inherent characteristics of MDPE such as corrosion crack resistant, tough and flexible makes polylthylen piping system the most preferred means for transportation and distrbution of waters, potrol and natural gases wordwide.

Material

The raw material used is Medium Density Polyethylene (MDPE) Advika Pipes Industries manufactures pipes in graces PE-30 & PE-100 for water gas applications in sias 20 mm lo 250 mm (Outer Diameter in all pressure ratings. Traditionally these pipes are identified by its color for different uses like blue for waler orange for petrol and yellow for gas line,

Specification:

Advika Pipes Industries manufactures MDPE pipes which confirms to National and International standards as 150 4437,150 4427,15 1488C-2001, 85-7281 DIN 80/4/75 Advika Pipes can also be tailor made to meet the specification requirement of individual gas authority of customers.

Specification:

Flexible	:	Easy to handle
Corrosion Resistant	:	Tough and highly reliable in aggressive solid
Fusion Joints	:	High integrity and reliability
Light Weight	:	Lighter in weight as compared to metal pipes
Crack Resistant	:	Excellent resistant to subsidence, traffic vibrations point leading and marshy ground
Homogenous	:	Leakage free joints
Installation	:	Low installation cost

Physical & Mechanical Properties of MDPE Pipes :

Characteristics	Units	Requirements	Test Parameters	Test Methods
Conventional Density	Kg/m3	>930 (base polymer)	230°C	ISO-1183, ISO-1872/1
Melt Flow Rate	G/10 min	0.1-1, 1	190°C / 5kg	ISO-4440/1, IS 2530:1963
Thermal Stability	Min.	>20	200°C	ISO / TR-10837
Hydrostatic	h	Failure time> =100h Failure time> =165h Failure time> =1000h	PE-80-9.0 MPa -20°C PE-80-4.6 MPa -80°C PE-80-4.0 MPa -80°C	ISO-1167
Elongation at Break	%	>=350		ISO-6259 / 3

Dimension : Nominal wall Thickness (All size in mm)

Outer Dia mm	SDR 17.6	SDR 13.6	SDR 11.0	SDR 9.0
16	2.3	2.3	3.0	3.0
20	2.3	2.3	3.0	3.0
25	2.3	2.3	3.0	3.0
32	2.3	2.3	3.0	3.6
40	2.3	3.0	3.7	4.5
50	2.9	3.7	4.6	5.6
63	3.6	4.7	5.8	7.1
75	4.3	5.5	6.8	8.4
90	5.2	6.6	8.2	10.1
110	6.3	8.1	10.0	12.5

COMMITMENT TO QUALITY





QUALITY CONTROL FACILITES



MFI
TESTING FACILITY



HYDROSTATICS PRESSURE
TESTING FACILITY



OIT
TESTING FACILITY



DENSITY
TESTING FACILITY

ADVIKA PIPES
QUALITY ASSURANCE PLAN

RAW MATERIAL INSPECTION

1. **Density**
2. **Melt Flow Rate**

IN-PROCESS & ONLINE CHECKS

(1) Dimension
- (a) Outside Diameter
- (b) Wall Thickness
- (c) Ovality
- (d) Length

(2) Surface Finish

(3) Marking & printing

FINAL QUALITY ASSURANCE APPROVAL

(1) Dimensions
- (a) Outside Diameter
- (b) Wall Thickness
- (c) Ovality
- (d) Length
- (e) Coil Dimensions

(2) Marking

(3) Packaging

(4) Physical Characteristics
- (a) Density
- (b) Melt Flow Rate
- (c) Thermal Stability (optional)
- (d) Environmental Stress Crack resistance (optional)
- (e) Longitudinal Reversion
- (f) Carbon Black Content
- (g) Carbon Black Dispersion

(5) Mechanical Characteristics

(a) Hydrostatic Pressure Resistance (IPCR Tests)

OUR REACH


RAJASTHAN
MADHYA PRADESH
GUJRAT
CHHATISHGARH
MAHARASHTRA


rate
value
needs
care
clientèle
poll
top
choice
tried and tested
statutory
rights
product
customer
100%
price
business
assured
satisfaction
right
effectiveness
shop
operations
quality guarantee
opinion
smile
respect
service
testimonials
service with a smile
excellence
customer service
like
assistance
excellent
prize
tick
quality service
norms
quality
guaranteed
advice
response time
recommend
solutions
first
purchase money back guarantee
publicity
good
at your service
now
efficiency
pr
client
control
company
label
standards
loyalty
law
marketing
survey

OUR MANUFACTURING PRODUCTS

• HDPE PIPES • HDPE ELECTRICAL CONDUIT PIPES • HDPE FABRICATED FITTING
• HDPE WELDIG MACHINE • MDPE PIPES •OPTICAL FIBRE CABLES • PBL DUCT PIPES



ADVIKA PIPES

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