

High Density Pipes (HDPE)



INTRODUCTION :

We manufacture premium quality HDPE pipes, which are widely used in metropolitan, underwater, mining, landfill gas extraction, municipal, industrial, cable duct, gas oil, mining & water utility and agricultural applications. These pipes are manufactured using high-grade polyethylene in compliance with prevailing quality standards.

They are effectively used in underground, above ground, surface, under water as well as floating pipe applications. Our clients can avail pipes in two types, High Density (HDPE) that can carry potable water, chemicals, hazardous wastes, waste-water, slurry, cables and compressed gases / oils.

Owing to lowest repair frequency per kilometre, these pipes are extensively used for urban water and gas distribution.



SPECIFICATION

- ▶ **Materials** : High Density Polyethylene Polymers Materials.
- ▶ **Product Range** : 20mm to 110mm Outer diameter.
- ▶ **Pressure Class** : 2.5,4,6,8,10,12.5, 16 & 20 kg/cm.
- ▶ **Colour** : Black Color & Inner White Coating.

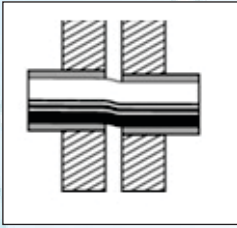
APPLICATION

- ▶ **Municipal & hazardous waste landfills**
- ▶ **Effluent treatment plants**
- ▶ **Reservoirs**
- ▶ **Canals**
- ▶ **Roads**
- ▶ **Railways**
- ▶ **Aquaculture**
- ▶ **Tunnels**

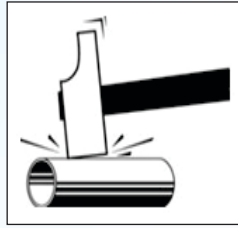
ADVANTAGES COMPARE TO OTHER PIPE

Properties	PVC	PE 100	GRP
Brittleness Properties	Frail	Very Resistant	Partly Resistance
Maximum Produced Length (m)	6	500	6/12
Corrosion Resistance - Abrasion Resistance	Partly Resistance	Very Resistance	Frail
Hygienic Superiority	Worrisome	Excellent	Problematic
Wall Elasticity coeff.	33	377	33
Water Hammer Damping Ability *	Problematic	Excellent	Problematic
Need for Trench Widening (%Pipe Diameter)	More than 110%	More than 5-10%	More than 200%
Bedding Necessity Around Pipe (Max:100, Min:0)	100	10	100
Adaptation to Ground Movement	No	Adapts	No
Branching Possibility	Very Difficult	Very Easy	Difficult

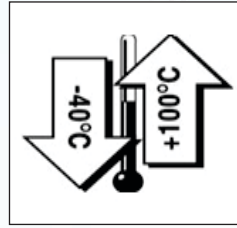
FEATURES



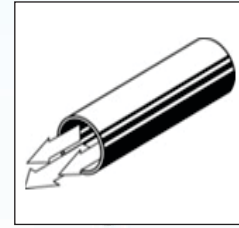
Elastic Suitable
FOR UNDERGROUND
PIPES THROUGH ADJUSTMENT
TO LOCAL GROUND MOVEMENT



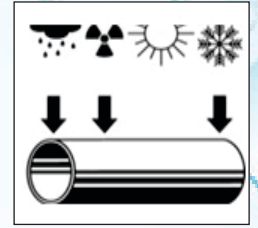
Impact-resistant
AND
TOUGH UNBREAKABLE



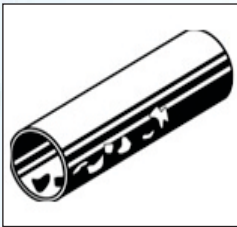
Thermal resistant
APPLICATION POSSIBLE
BETWEEN -40°C AND 100°C



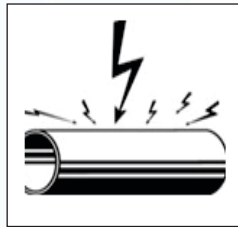
Smooth internal wall
LOW BLOCKAGE RISK DUE
TO LOW
DEPOSIT/RESIDUE EFFECTS



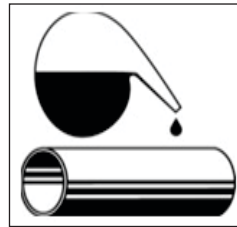
Weather-resistant/UV resistant
APPLICATION IN OPEN
AIR UNRESTRICTED THROUGH
COLOURING WITH CARBON BLACK



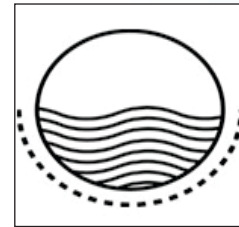
Wear resistant
LOWER COST DUE TO
RELATIVE LONG LIFE



Insulating
NON CONDUCTIVE



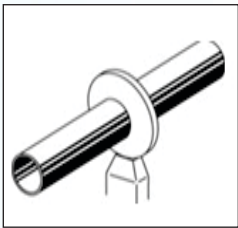
Chemical resistant
SUITABLE FOR TRANSPORT
OF POLLUTED WASTE WATER



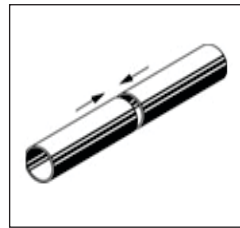
Poor heat conductivity
NO CONDENSATION POSSIBLE
DURING SHORT PERIODS
OF COOLING



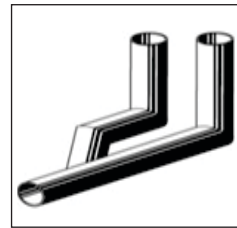
Non-toxic
ENVIRONMENTAL FRIENDLY



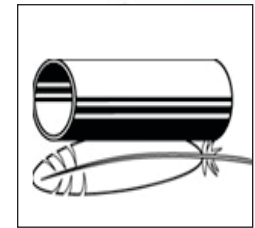
Highly suitable for welding
EASY INSTALLATION USING BUTT-WELDING
AND ELECTRO FUSION TECHNIQUES



Homogeneous welded joints
PULL TIGHT AND LEAK PROOF



Prefabrication
FAST AND COST-SAVING
INSTALLATION



Light in weight
COST SAVING IN TRANSPORT
AND HANDLING

WHAT ARE HDPE PIPE?

High-density polyethylene (HDPE) or polyethylene high-density (PEHD) is a polyethylene thermoplastic made from petroleum. ... With a high strength-to-density ratio, HDPE is used in the production of plastic bottles, corrosion-resistant piping, geomembranes, and plastic lumber.

WHY IS HDPE USED?

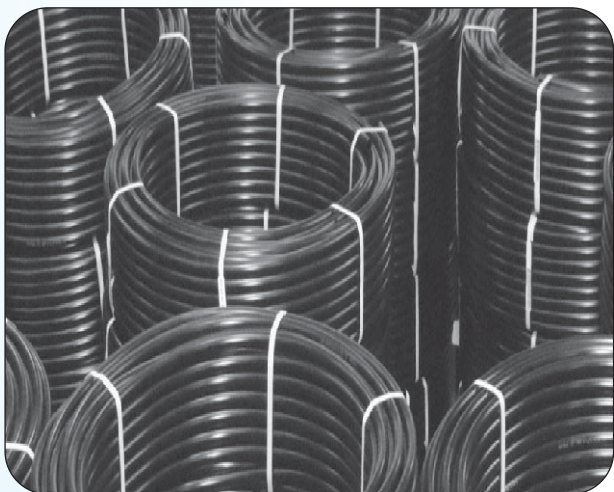
Like many other plastics, HDPE often replaces heavier materials, in part because our society and many companies are pursuing sustainability goals, such as reducing the amount of material used in packaging and products. "Lightweight and strong" can translate into "less impact on the environment"

Wall Thickness of Pipes for Material Grade PE 80

Nominal Dia	Wall Thickness of Pipes for Pressure Ratings of													
	PN2.5		PN4		PN6		PN8		PN10		PN12.5		PN16	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	-	-	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3
25	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.5	4.1
32	-	-	-	-	-	-	2.4	2.9	3.0	3.5	3.6	4.2	4.5	5.2
40	-	-	-	-	2.3	2.8	3.0	3.5	3.7	4.3	4.5	5.2	5.6	6.4
50	-	-	2.3	2.8	2.9	3.4	3.8	4.4	4.6	5.3	5.6	6.4	6.9	7.8
63	-	-	2.5	3.0	3.6	4.2	4.7	5.4	5.8	6.6	7.0	7.9	8.7	9.8
75	-	-	2.9	3.4	4.3	5.0	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	2.3	2.8	3.5	4.1	5.1	5.9	6.7	7.6	8.2	9.3	10.0	11.2	12.5	14.0
110	2.7	3.2	4.3	5.0	6.3	7.2	8.2	9.3	10.0	11.2	12.3	13.8	15.2	17.0

Wall Thickness of Pipes for Material Grade PE 100

Nominal Dia	Wall Thickness of Pipes for Pressure Ratings of									
	PN6		PN8		PN10		PN12.5		PN16	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	-	-	-	-	-	-	-	-	2.3	2.8
25	-	-	-	-	-	-	2.3	2.8	2.9	3.4
32	-	-	-	-	2.4	2.9	2.9	3.4	3.7	4.3
40	-	-	2.4	2.9	3.0	3.5	3.7	4.3	4.6	5.3
50	2.3	2.8	3.0	3.5	3.7	4.3	4.6	5.3	5.7	6.5
63	2.9	3.4	3.8	4.4	4.7	5.4	5.7	6.5	7.1	8.1
75	3.5	4.1	4.5	5.2	5.6	6.4	6.8	7.7	8.5	9.6
90	4.1	4.8	5.4	6.2	6.7	7.6	8.2	9.3	10.2	11.5
110	5.0	5.7	6.6	7.5	8.1	9.2	10.0	11.2	12.4	13.9



Authorised Distributor

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