



**LDPE PIPE**  
(GULF PIPE)

**TECHNICAL SPECIFICATIONS**



**LDPE PIPE**®

**HS CODE 39173000**





## LDPE Pipe

Polyethylene pipes (LDPE) manufactured from highest grade of polyethylene resins, which provide maximum resistance to UV degradation and stress cracking. Includes a maximum 2.5% of black carbon, 4-5% of UV resistance material for other colors pipe, than black pipe color.

### APPLICATION

- ✓ Drip & micro sprinkler irrigation system
- ✓ Landscape irrigation system

### Features & Production Range

- ✓ Manufacture from virgin pipe grade raw material (PE) material.
- ✓ Excellent corrosion and chemical resistance. Inert to most acidic alkaline solutions.
- ✓ Light weight
- ✓ Excellent flexibility combination with strength
- ✓ Smooth inner walls minimized frictional losses
- ✓ Manufactured as per ISO-8779 standard in PE-25, PE-32, PE-50 grades
- ✓ Available **16mm, 18mm, 20mm, 25mm, 32mm** outside diameter and different wall thicknesses
- ✓ Available in rolls based on customer requirements
- ✓ Available in different pipe colors
- ✓ With two layer of extrusion system that our customer can customized their pipes based on their requirements

### Technical Data PE32-1992 Pipes Diameter as per ISO 8779 & ISO161-1 Standard

Nominal/OD mm	2.5 bars			4 bars			6 bars		
	Code	W.S mm	Wt. kg/m	Code	W.S mm	Wt. kg/m	Code	W.S mm	Wt. kg/m
6	DPE060025			DPE060004			DPE060006		
12	DPE120025			DPE120104	1	0.034	DPE121106	1.1	0.038
16	DPE160125	1.0	0.046	DPE161204	1.2	0.055	DPE161506	1.5	0.069
18	DPE201225	1.2	0.069	DPE201504	1.5	0.086	DPE201906	1.9	0.109
25	DPE251225	1.2	0.086	DPE251504	1.5	0.108	DPE252306	2.3	0.166

\*W.S. Pipe wall Thickness

\*Wt. Pipe weight

# GR-DRIP IRRIGATION PIPE (GULF PIPE)

## TECHNICAL SPECIFICATIONS



### GULF PIPE

#### GEOMETRICAL CHARACTERISTICS

Inner Diameter: 13.0-14.2 mm inlet diameter

Wall thickness: 1.0 mm-1.2 mm

Hole Quantity: 3-6 pieces

Dripper Distance: 30, 40, 50 cm

Roll length: 100 - 400 meters per roll

#### MATERIAL PROPERTIES

Type of Material: LDPE (low Density Polyethylene)

Rate of UV Ingredients: 1.5% from total material quantity

Rate of Carbon Black Ingredients: 3.0% from total material quantity

#### GR Drip Irrigation Pipe Specifications

- ✓ This pipe is made of low density poly ethylene (LDPE)
- ✓ Diameter is nominal (16mm-20mm)
- ✓ Water is brought between emitters is 30, 40, 50, 60 cm, could be change according to requirements
- ✓ This system produced with discharge rate of 4 L/hr and 8 L/hr with pressure (1) bar
- ✓ Max pressure for the pipe is 2.5 bar.
- ✓ The water flows through several holes around the pipe.



# GR-DRIP IRRIGATION PIPE (GULF PIPE) TECHNICAL SPECIFICATIONS



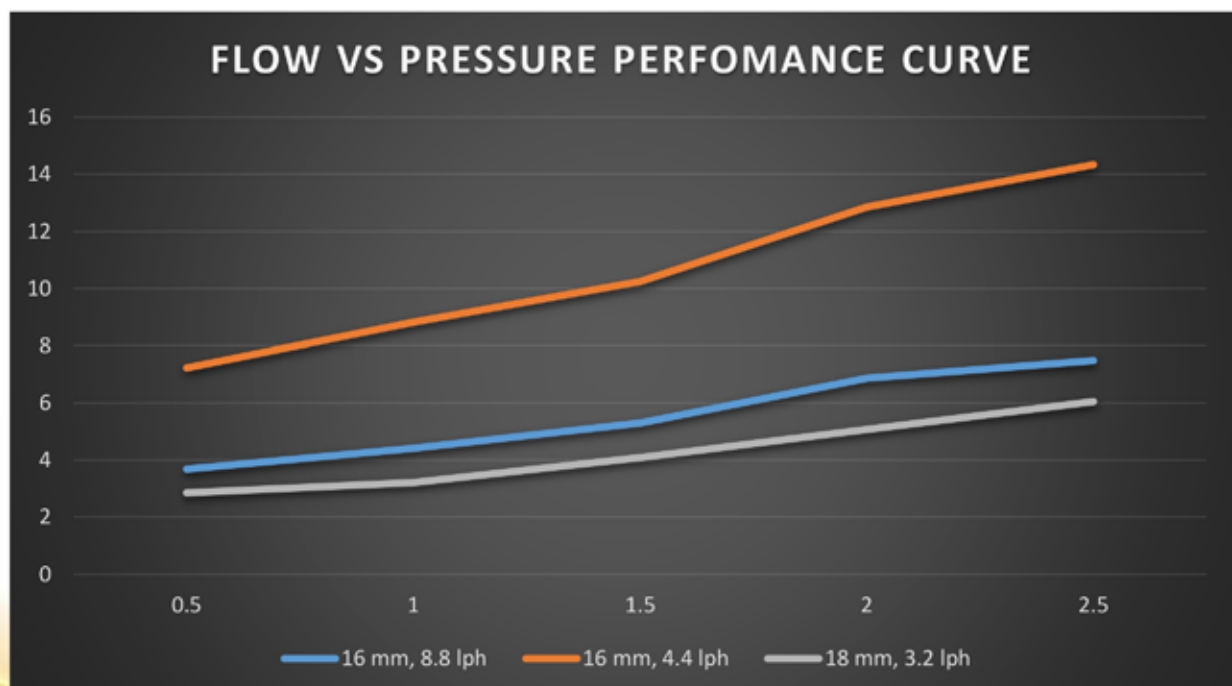
## Gr™ Drip line technical data

Nominal diameter	Internal diameter	External diameter	thickness		Maximum working pressure		kd
			mil	mm	bar	psi	
16	13.8	15.6	35	0.90	3.0	58	1
		16.0	44	1.10	4.0	43	

Inner Diameter	Wall Thickness			
	0.9 mm	1.0 mm	1.1 mm	1.2 mm
Recommended spacing	Min: 14.8 mm	Min: 14.7 mm	Min: 14.6 mm	Min: 14.5 mm
	Max: 15.4 mm	Max: 15.3 mm	Max: 15.2 mm	Max: 15.1 mm

Wall Thickness	0.9 mm	1.0 mm	1.1 mm	1.2 mm
Recommended spacing	Min: 0.81 mm	Min: 0.9 mm	Min: 0.99 mm	Min: 1.08 mm
	Max: 0.99 mm	Max: 1.1 mm	Max: 1.21 mm	Max: 1.32 mm

## FLOW PERFORMANCE CHART



SIZE	Bar					Emmitter's	
	0.5	1	1.5	2	2.5		
	Average Flow Rate(LPH)					x	Kd
16 MM, 8.8 LPH	3.68	4.41	5.3	6.87	7.48	0.45	4.41
16 MM, 4.4 LPH	7.23	8.82	10.24	12.85	14.33	0.37	8.82
18 MM, 3.21 LPH	2.85	3.21	4.08	5.07	6.05	0.591	3.21

❖ Technical data is to be used as a guide only, Actual result may vary depending on manufactured pipe characteristics



Dripper type	GR 16mm				
Nominal Discharge	8L/hr				
Dripper Discharge (cm)	30	40	50	70	100
Pipe Length (cm)	25	30	40	50	70

Dripper type	GR 16mm				
Nominal Discharge	4L/hr				
Dripper Discharge (cm)	30	40	50	70	100
Pipe Length (cm)	40	50	60	75	100