



MIRAJ

HDPE PIPE

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**MIRAJ PIPES & FITTINGS
PVT. LTD.**

OPP GANGOTRI, BADI-THUR
ROAD, FENIYON KA GUDA,
UDAIPUR(RAJASTHAN)

ABOUT US

Founded in 2004, Miraj Pipes & Fittings Pvt. Ltd. has emerged as a prominent supplier of high-quality Industrial Pipes, Industrial Pipe Fittings, and HDPE Sprinklers. Under the effective guidance of Chief Operating Officer Mr. Kailash Chandra Agarwal, the company has attained notable success, establishing itself as a reliable provider of superior products. Committed to delivering excellence, Miraj Pipes & Fittings Pvt. Ltd. continues to excel in the industry by providing dependable solutions to cater to a wide range of industrial requirements.

Our state-of-the-art 6 lakh sq. ft. infrastructure, equipped with cutting-edge machinery, excels in handling orders of all sizes. The in-house research and development facility ensures that our products consistently meet ISI standards.

With 28 dedicated machines, our production capacity reaches an impressive 55,640 metric tons. Our commitment to quality is highlighted by our ISO 9001 certification, covering a diverse product range that includes RIGID PVC pipes, SWR pipes, Elastomeric pipes, CPVC & UPVC plumbing solutions, HDPE pipes, Sprinkler pipes, and more.

PRODUCTION CAPACITY

- UPVC Pipes / CPVC Pipes / SWR Pipes / Plumbing Pipes – 49866 MT
- HDPE Pipe / Sprinkler – 3942 MT
- PVC Fitting – 1832 MT

MIRAJ HDPE PIPE

As a leading HDPE Pipes Manufacturer in India, our precision-engineered High-Density Polyethylene (HDPE) Pipes offer exceptional performance and extended functional life. Versatile for various applications, including potable water, slurries, hazardous wastes, and more, our pipes are designed for durability and reliability.

Product Range :

- 20 mm to 400 mm diameters
- Pressure Rating : PN - 2 to 20 Kg/cm²
- Grades : PE 63, PE 80, PE 100
- Available in Coil form & pipe form in different sizes.

Recommendations :

Depth of Bore(in mtrs)	Pressure Classed
Upto 55 mtrs	4.0 kg/cm ²
Upto 90 mtrs	6.0 kg/cm ²
Upto 140 mtrs	10.0 kg/cm ²
Upto 170 mtrs	12.5 kg/cm ²

Advantages :

- Strong & Durable, Light Weight
- Resistant to moisture, corrosion, abrasion
- Termite proof and UV resistant
- Longer lasting & maintenance free
- Energy Saving
- Leak Proof

Product Specification :

S. No	Clause	Test	Unit	Specific Requirement
1	7.1	Visual appearance	-	The internal and external surfaces of the pipes shall be smooth, clean and free from grooving and other defect. The ends shall be cleanly cut and shall be square with the axis within the tolerances
		Out of Square of Pipe End	mm	as per standard
2	7.2	Length	mm	
3	7.3	Coiling	mm	The minimum internal diameter of the coil shall not be less than $18 d_n$
5	8.2	Reversion Test	%	The Value of the longitudinal reversion shall not be greater than 3 percent
6	8.3	Carbon Black Content	%	The carbon black content shall be within 2.5 ± 0.5 percent
		Carbon Black Dispersion	-	The dispersion of carbon black Shall be Satisfactory
7	8.4	Melt Flow Rate	gm/ 10min	0.15 to 1.1 The tested value of melt flow rate (MFR) shall be within ± 20 percent of the MFR declared/nominated by the resin manufacturer if the latter is 1 or above, and within ± 30 percent if the latter is less than 1
8	8.7	Density	Kg/m ³	940.0 to 960.0 Kg/m ³ The tested value of density shall not differ from density declared/nominated by the resin manufacturer by more than 3 kg/m ³ .
9		OXIDATION INDUCTION TIME TEST	Minute	Min. 20 Minute
10		Yield Strength Elongation	MPa %	Min. 15 Min. 350

Dimension chart for PE 63 :

SIZE / OD	PN 2		PN 2.5		PN 3.2		PN 4		PN 5		PN 6		PN 8	
	SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11	
	Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20 + 0.3	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.3
25 + 0.3	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7
32 + 0.3	-	-	-	-	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4
40 + 0.4	-	-	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.7	4.2
50 + 0.4	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.7	4.2	4.6	5.2
63 + 0.4	-	-	-	-	2.5	2.9	3.0	3.4	3.8	4.3	4.7	5.3	5.8	6.5
75 + 0.5	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
90 + 0.6	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
110 + 0.7	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
125 + 0.8	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
140 + 0.9	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
160 + 1.0	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
180 + 1.1	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
200 + 1.2	4.9	5.5	6.1	6.9	7.7	8.6	9.6	10.7	11.8	13.1	14.8	16.3	18.2	20.2
225 + 1.4	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
250 + 1.5	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
280 + 1.7	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
315 + 1.9	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
355 + 2.2	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
400 + 2.4	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

Dimension chart for PE 80 :

SIZE / OD	PN 2.5		PN 3.2		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20		
	SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4		SDR 6		
	Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
16 + 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.2	2.6	2.7	3.1	
20 + 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7	2.8	3.2	3.4	3.9
25 + 0.3	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7	2.8	3.2	3.4	3.9	4.2	4.8	
32 + 0.3	-	-	-	-	-	-	-	-	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 + 0.4	-	-	-	-	-	-	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 + 0.4	-	-	-	-	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 + 0.4	-	-	-	-	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 + 0.5	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 + 0.6	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 + 0.7	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 + 0.8	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 + 0.9	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 + 1.0	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 + 1.1	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 + 1.2	4. 9	5.5	6.1	6.9	7.7	8.6	9.6	10. 7	11. 8	13. 1	14. 8	16. 3	18. 2	20. 2	22. 3	24. 7	27. 1	30. 0	33. 4	36. 9
225 + 1.4	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 + 1.5	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 + 1.7	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 + 1.9	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 + 2.2	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 + 2.4	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

Dimension chart for PE 100 :

SIZE / OD	OD		PN 3.2		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20		
			SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4		
			Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		Wall Thick		
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
16 + 0.3	16.0	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.2	2.6	
20 + 0.3	20.0	20.3	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7	2.8	3.2
25 + 0.3	25.0	25.3	-	-	-	-	-	-	-	-	-	-	2.0	2.3	2.3	2.7	2.8	3.2	3.4	3.9	
32 + 0.3	32.0	32.3	-	-	-	-	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.6	4.1	4.4	5.0	
40 + 0.4	40.0	40.4	-	-	-	-	-	-	2.0	2.3	2.4	2.8	3.0	3.4	3.7	4.2	4.5	5.1	5.5	6.2	
50 + 0.4	50.0	50.4	-	-	-	-	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	
63 + 0.4	63.0	63.4	-	-	-	-	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	
75 + 0.5	75.0	75.5	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	
90 + 0.6	90.0	90.6	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	
110 + 0.7	110.0	110.7	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	
125 + 0.8	125.0	125.8	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	
140 + 0.9	140.0	140.9	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	
160 + 1.0	160.0	161.0	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	
180 + 1.1	180.0	181.1	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	

200 + 1.2	200. 0	201. 2	4. 9	5.5	6.1	6.9	7.7	8.6	9.6	10. 7	11. 8	13. 1	14. 8	16. 3	18. 2	20. 2	22. 3	24. 7	27. 1	30. 0
225 + 1.4	225. 0	226. 4	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
250 + 1.5	250. 0	251. 5	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
280 + 1.7	280. 0	281. 7	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
315 + 1.9	315. 0	316. 9	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
355 + 2.2	355. 0	357. 2	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
400 + 2.4	400. 0	402. 4	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