UPVC HIGH PRESSURE PIPES & FITTINGS

KaranFlo™

Modern Piping for Healthy Living

100% Lead Free

UV stablised

AN ISO 9001 : 2008 COMPANY

www.karanpolymers.com

KaranFlo™

COMPANY PROFILE

We at Karan Polymers Pvt. Ltd., are dedicated to help people to transfer water, oil or fuilds etc. from one point to other at most economical way. Our wide range of pipes and fittings is the basic way to achieve our goal.

In addition to threaded plumbing pipes which we are already manufacturing for last two decades we now proudly introduce to you the lead free UPVC high pressure pipe and fittings with solvent cement jointing. This method is too fast, cost effective more over user and plumber friendly. This is one of the main reasons for giving top priority to UPVC plumbing system.

The bonding between pipes and fittings is everlasting and above all supposed to be the most sophisticated unique method both for new installations and replacements.

PROPERTIES OF UPVC PIPES & FITTINGS

Density : 1.43g/cm^3 (approx.)
Mechanical Strength : 550 Kg/cm^2
Tensile Strength : 45 Mpa
Compressive Strength : 66 Mpa
Shear Strength : 39 Mpa
Hardness (shore) : 85 (ASTM D2240)
Elongation at break : 50-80%
Electrical Resistance : $>10_{14}$ Ohm.cm
Thermal Conductivity: 0.13W/m/°C
Max. continuous service temp : 60°C
Coeff. of Thermal Expansion : 6.4 X 10_5mm/mm/°C
Hygienic : UPVC are resistant to attack by fungi and are not subjected to contamination.
Hydraulic Resistance & Flow Characteristics : The Hazen William Constant for flow in UPVC pipes is around 150-165
Chemical Resistance : UPVC is unaffected by most concentrations of acids, alkalis, organic chemicals, fat & oils.
Flexibility : Being a thermoplastic material UPVC is better able to withstand deformation in shape due to earth movements.
Galvanic and Electrolytic immunity : UPVC being non-conductor of electricity, is totally immune to galvanic and electrolytic attack.
Fire Resistance : Self-extinguishing in nature and do not support combustion.

UPVC PIPE DIMENSIONS PRESSURE RATING AT 23°C AS PER ASTM D 1785

SIZE	OUTER DIAMETER	SCHEDULE 40			SCHEDULE 80			THREAD PER INCH.	THREAD LENGTH
		WALL THICKNESS	WORKING PRESSURE	BURST PRESSURE	WALL THICKNESS	WORKING PRESSURE	BURST PRESSURE		
INCH.	(MM.)	(MM.)	(MPa)	(MPa)	(MM.)	(MPa)	(MPa)	(Nos.)	(±2 MM.)
½	21.34	2.77 + 0.51	4.14	13.17	3.73 + 0.51	5.86	18.76	14	15.00
¾	26.67	2.87 + 0.51	3.31	10.62	3.91 + 0.51	4.76	15.17	14	16.50
1	33.40	3.38 + 0.51	3.10	9.93	4.55 + 0.53	4.34	13.93	11	19.00
1¼	42.16	3.56 + 0.51	2.55	8.14	4.85 + 0.58	3.59	11.45	11	22.00
1½	48.26	3.68 + 0.51	2.28	7.31	5.08 + 0.61	3.24	10.41	11	22.00
2	60.32	3.91 + 0.51	1.93	6.14	5.54 + 0.66	2.76	8.89	11	30.00
2½	73.02	5.16 + 0.61	2.07	6.69	7.01 + 0.84	2.90	9.38	11	32.00
3	88.90	5.49 + 0.66	1.79	5.79	7.62 + 0.91	2.55	8.27	11	35.00
4	114.30	6.02 + 0.71	1.52	4.90	8.56 + 1.02	2.21	7.17	11	42.00

It is also available in threaded form for G.I. Fittings

NOTE : 1 MPa = 10.2Kgf/cm², 1 Kgf/cm² = 14.20 psi

Karan Flo™

UPVC FITTINGS AS PER ASTM D 2467 SCH 80

COUPLER

SIZE

1/2"
3/4"
1"
1¼"
1½"
2

ELBOW 90°

SIZE

1/2"
3/4"
1"
1¼"
1½"
2
3/4" X 1/2"
1"X 3/4"
1¼"X 3/4"

REDUCING ELBOW

SIZE

3/4"X ½"
1"X ½"
1"X 3/4"

EQUAL TEE

SIZE

1/2"
3/4"
1"
1¼"
1½"
2

REDUCING TEE

SIZE

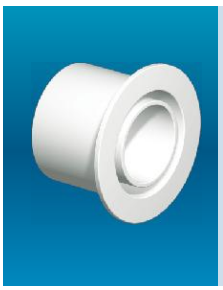
3/4" X 1/2"
1"X 3/4"
1"X 1/2"
1¼"X 1"
1½"X 1"
1½"X 1¼"
2"X 1"
2"X 1½"

REDUCER

SIZE

3/4" X 1/2"
1"X 1/2"
1"X 3/4"
1¼"X 1"
1½"X 1"
1½"X 1¼"
2"X 1"
2"X 1¼"
2"X 1½"

REDUCING BUSH



SIZE

3/4" X 1/2"
1"X 1/2"
1"X 3/4"
1¼"X 1"
1½"X 3/4"
1½"X 1¼"
1½"X 1"
2"X 1¼"
2"X 1½"

UNION

SIZE

1/2"
3/4"
1"
1¼"
1½"
2

END CAP

SIZE

1/2"
3/4"
1"
1¼"
1½"
2"

FTA (PLASTIC)

SIZE

1/2"
3/4"
1"
1¼"
1½"
2"

MTA (PLASTIC)

SIZE

1/2"
3/4"
1"
1¼"
1½"
2"

FEMALE THREADED ELBOW (BRASS)

SIZE

1/2"
3/4"
3/4"X 1/2"
1"X 1/2"

FEMALE THREADED TEE (BRASS)

SIZE

1/2"
3/4"
3/4"X 1/2"
1"X 1/2"

FTA (BRASS)

SIZE

1/2"
3/4"
1"
1¼"
1½"
1"X 3/4"
2
3/4"X 1/2"
1"X 1/2"

MTA (BRASS)

SIZE

1/2"
3/4"
1"
1¼"
1½"
1"X 3/4"
2
3/4"X 1/2"
1"X 1/2"

BALL VALVE

SIZE

1/2"
3/4"
1"
1¼"
1½"
2

BYPASS BEND

SIZE

1/2"
3/4"
1"
1¼"
1½"
2

TANK CONNECTOR

SIZE

1/2"
3/4"
1"
1¼"
1½"
2"

PIPE CLIP

SIZE

1/2"
3/4"
1"
1¼"
1½"
2

SOLVENT CEMENT (HEAVY DUTY)

SIZE

32 OZ / 0.946 ML TINS
16 OZ / 0.473 ML TINS
08 OZ / 0.237 ML TINS
04 OZ / 0.118 ML TINS

KaranFlo™

JOINING INSTRUCTION

CUTTING | DEBURRING | ROUGHENING | SOLVENT CEMENTING | JOINTING

ADVANTAGES

ECONOMICAL TO CONVENTION : Apart from superiority over conventional pipes, KARAN PVC pipes are light in weight and hence they offer total economy in handling, transportation and installation.

DURABLE : As these pipes are free from weakness caused by scale formation, rusting, weathering and chemical action, it lasts for a life time.

HIGH STRENGTH : Pipes offer excellent resistance to acids, oxidizing agents, alkalis, oils and domestic effluents.

LEAK FREE : KARAN UPVC pipes and fittings are produced on modern machines and threaded on advanced CNC machine KARAN UPVC piping system is leak free.

CORROSION FREE : Being immune to chemical, electrolytic and galvanic action, these pipes are free from corrosion.

CONVENIENT INSTALLATION : KARAN PVC pipes are light in weight and hence easy to install.

MODERN : Having various advantages KARAN UPVC pipes & fitting is a modern generation plumbing system.

LIGHT WEIGHT :

ECONOMICAL | CHEMICALLY INERT (Con. H_2SO_4) | CONVENIENT INSTALLATION

APPLICATIONS

- UPVC pipes are applicable for cold water in Building and Housing Sectors.
- Industrial Process lines.
- Swimming pools.
- Salt water lines.
- Aggressive / corrosive fluid transportation.
- Dye plant, chrome, zinc plating, tanning industry and textile process houses.
- Sugar, paper and distillery industries.
- Coal washing and ash handling.

APPLICATION TO BE AVOIDED

 # NOT TO BE USED IN COMPRESSED AIR OR GAS PIPELINES.

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