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JEDDAH POLYMER - Introduction

JIDDAH DOLUMIA offers a wide range of uPVC, cPVC piping systems conforming to highest standards. These pipes are easy to handle and lay. High quality at affordable cost is the hallmark of JIDDAH DOLUMIA pipes & fittings.

JEDDAH POLYMER - Range

JIDDAH DOLUMIA can provide uPVC, cPVC pipes & fittings of nominal size range from 1/2" to 24" conforming to BS, PS, ASTM and DIN standards.

JEDDAH POLYMER offers

Complete piping systems for a variety of purposes including (but not limited to):

- uPVC, cPVC Pressure pipe for water supply
- uPVC pipes for irrigation
- uPVC pipes for waste and ventilation
- uPVC pipes for drainage and sewarage system
- uPVC perforated and well casing pipes
- uPVC, cPVC pipes for transpotation of inorgainc acids and salts

JEDDAH POLYMER - Customer Services

IIDDAU DALUMIA provides

- Pre sales and after sale services to customer.
- Customer Services department helps to select meterials for pipes as designed by the engineers.
- Visits to the Site to help in minimizing the problems during laying and testing.
- Advices for suitable position of air valves and fittings.

JEDDAH POLYMER - Quality Assurance Department

JEDDAH DOLUMEN has a well equipped quality control Laboratory. Jeddah Polymer does not compromise on quality of product. All the raw material is being tested before the manufacturing.

uPVC PIPE ACCORDING To BS-3505/PS-3051

NOMINAL SIZE		SIDE METER	CLA	SS B 6	bar	CLA	SS C 9	bar	CLAS	S D 1	2 bar	CLAS	S E. 1	5 bar
			Wall TI	hickness	Wt/Mtr.	Wall Ti	nickness	Wt/Mtr.	Wall Ti	nickness	Wt/Mtr.	Wall Ti	nickness	Wt/Mtr
INCH	min. mm	max. mm	Min. mm	Max. mm		Min. mm	Max. mm		Min. mm	Max. mm		Min. mm	Max. mm	
1/2"	21.2	21.5	-	-	-	-	-	-	-	-	-	1.7	2.1	0.15
3/4"	26.6	26.9	-	-		-	-	-	-	-	-	1.9	2.5	0.22
1"	33.4	33.7	-	-	-	-	-	-	-	-	-	2.2	2.7	0.32
1 1/4"	42.1	42.4	-	-	-	-	-	-	2.2	2.7	0.41	2.7	3.2	0.5
1 1/2"	48.1	48.4	-	-	-	-	-	-	2.5	3.0	0.54	3.1	3.7	0.65
2"	60.2	60.5	-			2.5	3.0	0.68	3.1	3.7	0.82	3.9	4.5	1.03
2 1/2"	75.0	75.3	-	-	-	3.0	3.5	1.01	3.9	4.5	1.2	4.8	5.5	1.58
3"	88.7	89.1	2.9	3.4	1.17	3.5	4.1	1.41	4.6	5.3	1.82	5.7	6.6	2.22
4"	114.1	114.5	3.4	4.0	1.78	4.5	5.2	2.32	6.0	6.9	3.03	7.3	8.4	3.65
5"	140.0	140.4	3.8	4.4	2.44	5.5	6.4	3.49	7.3	8.4	4.55	9.0	10.4	5.51
6"	168.0	168.5	4.5	5.2	3.46	6.6	7.6	5.01	8.8	10.2	6.57	10.8	12.5	7.95
8"	218.8	219.4	5.3	6.1	5.3	7.8	9.0	7.72	10.3	11.9	10.05	12.6	14.5	12.17
10"	272.6	273.4	6.6	7.6	8.26	9.7	11.2	11.97	12.8	14.8	15.59	15.7	18.1	18.89
12"	323.4	324.3	7.8	9.0	11.5	11.5	13.3	16.85	15.2	17.5	21.91	18.7	21.6	26.68

Nominal	Outside Dia	Wall 1	Thickness	Wt/Mtr.	Pressure Rating		
Size Inches	(d) mm	Min. mm	Max. mm	Kg.	P.S.I.		
1/2"	21.34	2.77	3.28	0.24	600		
3/4"	26.67	2.87	3.28	0.33	480		
1"	33.40	3.38	3.89	0.48	450		
1 1/4"	42.16	3.56	4.06	0.65	370		
1 1/2"	48.26	3.68	4.19	0.77	330		
2"	60.32	3.91	4.42	1.04	280		
2 1/2"	73.12	5.15	5.77	1.62	300		
3"	88.90	5.49	6.15	2.14	260		
4"	114.30	6.02	6.73	3.05	220		
6"	168.28	7.11	7.98	5.37	180		
8"	219.08	8.18	9.20	8.11	160		

uPVC ASTM D-1785 SCHEDULE 40 uPVC ASTM D-1785 SCHEDULE 80

Nominal	Outside Dia	Wall Thickness		Wt/Mtr.	Pressure Rating	
Size Inches	(d) mm	Min. mm Max. mm		Kg.	P.S.I.	
1/2"	21.34	3.73	4.24	0.309	850	
3/4"	26.67	3.91	4.42	0.418	690	
1″	33.40	4.55	5.08	0.614	630	
1 1/4"	42.16	4.85	5.44	0.85	520	
1 1/2"	48.26	5.08	5.69	1.03	470	
2"	60.32	5.54	6.20	1.43	400	
2 1/2"	73.12	7.01	7.25	2.5	390	
3″	88.90	7.62	8.53	2.91	370	
4"	114.30	8.56	9.58	4.26	320	
6"	168.28	10.97	12.29	8.13	280	
8″	219.08	12.70	14.20	12.4	250	

CPVC ASTM F-441 SCHEDULE 80

Nominal	Outside Dia	Wall Th	ickness	Wt/Mtr.	Pressure Rating P.S.I.	
Size Inches	(d) mm	Min. mm	Max. mm	Kg.		
1/2"	21.34	3.73	4.24	0.338	850	
3/4"	26.67	3.91	4.42	0.457	690	
1"	33.40	4.55	5.08	0.671	630	
1 1/4"	42.16	4.85	5.44	0.928	520	
1 1/2"	48.26	5.08	5.69	1.13	470	
2"	60.32	5.54	6.20	1.56	400	
3"	88.90	7.62	8.53	3.18	370	
4"	114.30	8.56	9.58	4.65	320	
6"	168.28	10.97	12.29	8.87	280	
8"	219.08	12.70	14.20	13.3	250	

uPVC ASTM D-2241 SDR-SERIES

Nominal Size Inches	Outside Diameter mm	Wall Thickness Min. mm	Wt/Mtr Kg
2" SDR-26	60.3	2.80	0.768
3" SDR-32.5	88.9	2.70	1.093
4" SDR-41	114.3	2.78	1.667
4" SDR-32.5	114.3	3.51	2.082
6" SDR-64	168.3	3.20	2.450
6" SDR-41	168.3	4.12	3.445
8" SDR-41	219.1	5.33	5.988

CHEMICAL PROPERTIES:

uPVC pipes are highly resistant to aqueous salt solution. mineral acids and alkalis. Some hydrocarbons are absorbed by uPVC and cause swelling and loss of strength. These changes are, however largely restored when the hydro-carbons are allowed to evaporate from the pipe. uPVC is virtually unaffected by water.

PVC pipe is not recommended for use with organic esters, ketones, chlorinated solvents, aromatic hydro-carbons regents and low molecular weight alcohols.

Resistance of Jeddah Polymer uPVC pipes to common Chemicals under normal Condition

Mineral Acids	Hydrochloric (Muriatic) acid-30% Sulphuric Acid 50% Sulphamic Acid 30%	Recommended Recommended Recommended
Alkalies	Ammonium Hydroxide Calcium Hydroxide Sodium Hydroxide	Recommended Recommended Recommended
Salts	Calcium Chloride Potassium Chloride Sodium Bicabonate Sodium Chloride Sodium Phosphate Sodium Sulphite	Recommended Recommended Recommended Recommended Recommended Recommended
Oxidising Agents/Disinfectants	Sodium Hydrochloride (Bleach Solu) Chlorine Water Calcium Hypochlorite-Soln. 18%	Recommended Recommended Recommended
Organic Acid	Acetic-Acid-10% Stearic Acid Hydroxy Acetic Acid	Recommended Recommended Recommended
Oils & Derived Products	Crude Oil Sour Diesel Fuel Gasoline Lubricating & Thread Cutting Olls Motor Oil	Recommended Recommended Recommended Recommended
Solvents	Aceton Methyl Ethyl Ketone Toluene Trichloroethylene Turpentine Xylent Soap & Detergents	Not Recommended Not Recommended Not Recommended Not Recommended Recommended Not Recommended Recommended
Gases	Ammonia Carbon dioxide Hydrogen Sulfide Natural Gas Oxygen	Recommended Recommended Recommended Recommended Recommended

PHYSICAL PROPERTIES:

	S.No.	PROPERTY	VALUE	UNIT
A.	Genral			
	1. 2. 3.	Specific Gravity Inflammability Water absorption (24 Hours At Ambient temperature)	1.42-1.46 will not support 0.07	Combustion %
B.	Electrica	I		
	1. 2.	Dielectric Constant (800 Cycle) Dielectric Strength	3.0 425	Volts/mil
C.	Thermal			
	1.	Specific Heat At 20°C	0.24	Cal/gm/ °C
	2.	Vicat softening point	85	°C
	3.	Heat Distortion temperature AT 18.5 kfg/cm2	75	°C
	4.	Thermal Conductivty	7-8x10-5	Cal m/m²h°C
	5.	Coefficient of linear expansion	7-8	m/m/ °C
D.	Mechan			
	1.	Tensile Stregth AT 23°C	450 - 600	kgf/cm²
	2. 3.	Modulus of elasticity AT 20°C Elongation AT break	30,000	kgf/cm² >80%
	4.	Impact strength At 0°C	0.5	ft Ib/in of Notch
	5.	Impact strength at 20°C	1-2	ft Ib/in of Notch
	6. 7.	Compressive strength	600 - 700	kgf/cm²
	7.	Bending Strength	1000	kgf/cm ²

ADVANTAGES OF JEDDAH POLYMER uPVC PIPES

Jeddah Ploymer uPVC pressure pipes provide the following distinct advantages:

- Simple to join and quick to install.
- Flexible and resistant to breakage.
- Easy to transport.
- Total resistance to corrosion, abrasion, growth of bacteria, algae and fungi.
- Light in weight, durable and economical.

- Non-Flammable/self-extinguishing. Does not support combustion.
- Exceptional chemical resistance to most acids, alkalis and halogens.
- Non-toxic and non-conductive.
- Smooth bore with excellent hydraulic characteristics, low frictional losses and high flow capabilities.
- Maintenence free

