

Not FIRST but ONE of The BEST

JEDDAH POLYMER

WHERE QUALITY MATTERS

FOOD GRADE

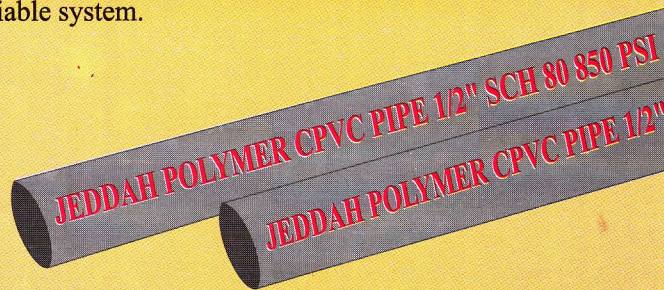
CPVC PIPES & FITTINGS FOR HOT & COLD WATER

JEDDAH POLYMER CPVC pipes and fitting are manufactured in PAKISTAN by using High Quality of CPVC RESIN from KENKA KENKA CORPORATION, JAPAN and further compounded in SAUDI ARABIA by ARABIAN PLASTIC COMPOUND. Our products are fully meeting or exceeding the requirements of ASTM material and dimensional standards.

JEDDAH POLYMER products are maintained through the operation of Quality Assurance System over both raw materials and finished products which guarantees the right materials for hot & cold water installations demanding a safe, tough and reliable system.

General Information:

Full range of size from 1/2" to 8"
 Standard Length 6 Meter
 Color Grey (Schedule 40 & 80)
 Specification Confirming to ASTM F-441



JEDDAH POLYMER CPVC PIPES DIMENSIONS & PRESSURE RATING

Nominal Size	Outer Dia.	SCHEDULE 40		SCHEDULE 80	
		Wall Thickness	Working Pressure	Wall Thickness	Working Pressure
Inch	Min.mm	Min.mm	P.S.I	Min.mm	P.S.I
1/2"	21.34	2.77	600	3.73	850
3/4"	26.67	2.87	480	3.91	690
1"	33.4	3.38	450	4.55	630
1-1/4"	42.16	3.56	370	4.85	520
1-1/2"	48.26	3.68	330	5.08	470
2"	60.32	3.91	280	5.54	400
3"	88.90	5.49	260	7.62	370
4"	114.3	6.02	220	8.56	320
6"	168.28	7.11	180	10.97	280
8"	219.08	8.18	160	12.7	250

TEMPERATURE PRESSURE RELATION

In case of operating Temperature is above 73° F / 23° C, working pressure must be derated as shown in Table.
 Temperature correction Factor.

Temp. °C	22	27	32	36	43	46	49	52	54	60	66	71	77	82	97
Temp. °F	70	80	90	100	110	115	120	125	130	140	150	160	170	180	200
% Correction	1.00	1.00	0.91	0.82	0.77	0.74	0.66	0.65	0.62	0.50	0.47	0.40	0.32	0.25	0.20

PHYSICAL & THERMAL PROPERTIES OF JEDDAH POLYMER CPVC

Property	Test	Condition	English Unit	SI Unit
GENERAL				
Specific Gravity	ASTM D 792	73°F / 23°C	1.55 g / cm	1.55 g / cm
Specific Volume		73°F / 23°C	0.645 cm / g	0.645 cm / g
Water Absorption	ASTM D 570 / 24 HR	73°F / 23°C	+ 0.03 %	+ 0.03 %
		212°F / 100°C	+ 0.55 %	+ 0.55 %
Coefficient of Friction Hazen - Williams C9 Factor			150	
Rockwell Hardness	ASTM D 785	73°F / 23°C	119 R	
Cell Class	ASTM D 1784		23447 - B	
MECHANICAL				
Izod Impact	ASTM D 256	73°F / 23°C	1.5 ft. lbs / in o.n	80 J / m.o.n
Tensile Strength	ASTM D 638 Type 1	73°F / 23°C	8,000 psi	55 N / mm ²
Tensile Modulus	ASTM D 638 Type 1	73°F / 23°C	360,000 psi	2500 N / mm ²
Flexural Strength	ASTM D 790 Proc. B	73°F / 23°C	15,200 psi	104 N / mm ²
Flexural Modulus	ASTM D 795	73°F / 23°C	415,000 psi	2860 N / mm ²
THERMAL				
Coefficient of Thermal Expansion				
	ASTM D 696		3.4x10 ⁻⁵ in/in/F	6.3x10 ⁻⁵ m/m/K
Thermal Conductivity	ASTM C 177		0.95 BTU / in/hr/ft ² /F	0.14W m/k/m ²
Heat Distortion	ASTM D 649		217°F	103°C
Heat Capacity	DSC 73°F / 23°C		0.21 BTU / lb°F	0.90J / gK
		212°F / 100°C	0.21 BTU / lb°F	1.10J / gK
Vicat Softening Temp	D-1525	°C	>105	
FLAMMABILITY				
Flammability Rating	UL 94	0.62 in / 0.157 cm	v-0,5VB,5VA	
Flame Spread	ASTM E84		15	
Smoke Developed	ASTM E84		70-125	
Limiting Oxygen Index	ASTM D 2863		60%	

Advantages of JEDDAH POLYMER CPVC Pipes & Fittings

Health Concerns

JEDDAH POLYMER CPVC piping supports the lowest bacteria growth compared with other traditional piping material.

Scale Build up

JEDDAH POLYMER CPVC piping system support no corrosion and hence scale build-up is inhibited.

U.V. Exposure

Since degradation process in CPVC is Dehydrochlorination and not oxidation. The out door exposure of CPVC pipes to U.V. do not break polymer. Hence, it is not only being limited to a surface discoloration.

Fire Safety

JEDDAH POLYMER CPVC pipes do not support combustion. No flame dripping, low flame spread and low smoke generation.

Water Hammer

JEDDAH POLYMER CPVC pipes are much quieter than metal systems with much less water hammer.

Effect of Chlorine

JEDDAH POLYMER CPVC pipe is unaffected by the presence of chlorine in potable water supply unlike Polyole fins which is affected by chlorine and hence break down of its polymer followed by potential leaks.

Low Thermal Expansion

JEDDAH POLYMER CPVC piping has a low coefficient of thermal expansion hence reduces the amount of pipe expanding when hot water is flowing, causing reduction in locking of pipes.

Easy, Cost Effective Installation

Easy to join by Solvent Cement, no need to use special tools, installation is easy in tight, confined or inaccessible places. No need for alternative materials such as expensive brass fittings. Necessary fittings are also made from CPVC.

Low Thermal Conductivity

The low thermal conductivity of CPVC pipes reduces heat loss through the pipes wall.

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