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Ori-Plast CPC

SOPVC 3" (BOMM) SCH-40 CPVC PIPE AS PER ASY

PREMIUM PIPES & FITTINGS FOR HOT & COLD WATER APPLICATIONS

International Grade CPVC . Corrosion Free . Fire Resistant . Lifetime Warranty

Easy snap-on, quick fix premium high pressure plumbing system

Temperature correction / derating

1.00

1.00

0.91

0.82

0.77

0.74

0.65

0.64

0.62

0.50

0.47

0.40

0.32

0.25

0.20

°C

21

27

38

43

46

49

52

54

60

66

71

77

82

93

Working Pressure in Mpa

80

100

110

115

120

125

130

140

150

160

170

180

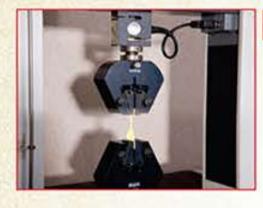
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Made From

Japanese Technology

Ori-Plast CPVC pipes are ideal solutions for hot and cold water plumbing applications

CPVC is the abbreviated form of chlorinated poly vinyl chloride, an amorphous (non-crystalline) thermoplastic material produced by post-chlorination of PVC i.e. replacing a portion of hydrogen by chlorine. The transformed material is characterised by higher temperature resistance than PVC as well as higher tensile strength, toughness and an exceptional chemical resistance. These unique properties have made CPVC an ideal piping material for hot and cold water applications for housing (both residential and commercial) and industry.



(CPVC 4120 - 23447 B) as per ASTM D 2846 & D 1784 Property Value Impact Strength (Izod) 80.1 J/m of Notch Tensile Strength 48.3 MPa Modulus of Elasticity 2482.0 MPa **Deflection Temperature** 100°C

Short term properties of CPVC compound

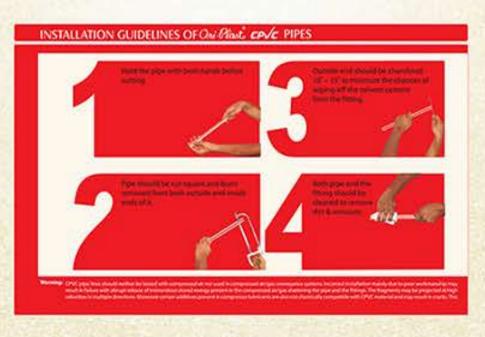
Advantages

under load (1.82 MPa)

- Very good mechanical characteristics also at higher temperatures. Long service life, even under intense corrosive conditions.
- Outstanding chemical resistance.
- No support of microbial growth.
- Smooth inner surface.
- Exceptional flammability resistance.
- No electrochemical corrosion.
- · Simple installation using solvent cement.
- · Very low thermal conductivity.
- No influence on drinking water,

Areas of application

- Residential Building: For indoor & outdoor applications in both hot and cold water systems in place of metal pipes e.g. GI & Copper.
- Commercial Buildings: For low maintenance water supply piping systems.
- Hospitals & Hotels: For ensuring continuous and uninterrupted round the clock supply of hot & cold water.
- Industrial Units: For use in chemical plants including Fire Fighting systems through sprinklers.



Dimension chart of Ori-Plast CPVC pipes

as per IS 15778:2007 (All dimensions are in 'mm')									
Nominal Diameter	Mean Outside Diameter		7434	ss - 1 R 11	Class - 2 SDR 13.5				
	Min	Max	Min	Max	Min	Max			
15	15.80	16.00	1.70	2.20	1.40	1.90			
20	22.10	22.30	2.00	2.50	1.70	2.20			
25	28.50	28.70	2.60	3.10	2.10	2.60			
32	34.80	35.00	3.20	3.70	2.60	3.10			
40	41.20	41.40	3.80	4.30	3.10	3.60			
50	53.90	54.10	4.90	5.50	4.00	4.60			
Working Pressure	27°C		2.	76	2.18				
in Mpa	82°C		0.	68	0.55				

Note:

1. The minimum wall thickness of 15mm pipes are not a function of SOR which is the ratio of minimum outside diameter to wall thickness 2. The Class - 1(SDR 11) pipes of this chart are similar to that of pipes as per ASTM D 2846 and are

nonly marketed as per this standard.

3. CPVC 4120 is the recommended grade of material in ASTM D 1784 & 2846 having a Hydrostatic Design stress of 14 MPa (or 2000 psi).

4. To obtain working pressure at temperatures between the ranges mentioned above, the values at 27°C should be multiplied by the respective correcting or derating factor. For example, the working pressure at 60°C for 50mmx Class -2(or 5DR13.5)pipe will be (2.18MPax 0.5) or 1.09MPa or 10.9 kg/cm².

Dimension chart of Ori-Plast CPVC pipes as per ASTM F 441/F 441 M(All dimensions are in 'mm')								
minal meter	Mean Outside Diameter		Sched	fule 40	Schedule 80			
	Min	Max	Min	Max	Min	Max		

as per ASTM F 441/F 441 M(All dimensions are in 'mm')							The second of the second second second					
Nominal Diameter		100000000000000000000000000000000000000	Mean Outside Diameter		Schedule 40		fule 80	Nominal Diameter	Schedule 40		Schedule 80	
		Min	Max	Min	Max	Min	Max		23'0	82°C	23°C	82°C
	15	21.20	21.40	2.77	3.28	3.73	4.24	15	4.14	1.03	5.86	1.45
	20	26.60	26.80	2.87	3.38	3.91	4.42	20	3.31	0.83	4.76	1.17
	25	33.27	33.53	3.38	3.89	4.55	5.08	25	3,10	0.76	4.34	1.07
	32	42.07	42.33	3.56	4.07	4.85	5.43	32	2.55	0.62	3.59	0.90
	40	48.15	48.45	3.68	4.19	5.08	5.69	40	2.28	0.55	3.24	0.79
	50	60.15	60.45	3.91	4.42	5.54	6.20	50	1.93	0.48	2.76	0.79
	65	78.82	73.18	5.16	5.77	7.01	7.85	65	2.07	0.52	2.90	0.72
	80	88.70	89.10	5.49	6.15	7.62	8.53	80	1.79	0.45	2.55	0.62
	90	101.40	101.80	5.74	6.42	8.08	9.04	90	1.65	0.41	2,41	0.59
	100	114.07	114.53	6.02	6.73	8.56	9.58	100	1.52	0.38	2.21	0.55
	125	141.05	141.55	6.55	7.34	9.52	10.66	125	1.31	0.31	2.00	0.48
		Friday Sala	3150 33	Acres 1975	1647036	7726704	1 22	11122	10 CO	200	0.000	The state of the s

10.97

12.29



168.58

7.11

7.97

168.02

in case of pipes above the star of 32mm (1% 7 Kitt apply a cost of coment on the pipe end, then in the fitting and finally again on the pipe and.

1.24

0.31 1.93

0.48

150



