



# POLYCARB<sup>®</sup>

## THE CHOICE IS CLEAR

Pvc/Pe Plastic Pipe Solutions



Iron vs. Plastic



# AN ISO 9001:2015 COMPANIES

**CERTIFICATE**  
CDG Certification Limited  
certifies that

**NITAN POLYCARB PVT.LTD.**

B/S Meena Apartments, Ground Floor, 71 Karbhya Road, Malad (W), Mumbai-400044, Maharashtra, India  
Branch Address - Mahaveer Colony Near GujratDharamshala, Tighani Naka Chowk, Rajpur - Chhattisgarh (CG)

The Management System of the above organization has been audited and found to be in accordance with the requirements of management system standards detailed below

## ISO 9001:2015

has established and applies a Quality Management System for following scope of activities

Manufacturing of UPVC, CPVC, NPVC Pipes, HDPE, LDPE, Flexible Hose Pipes

**Certificate Registration No. CCU/QMS/1517 Issue No. 1**  
Validity of certificate is subject to the certification authority's approval of the organization's Management System

Originally registered:  
Current Issue:  
1st Surveillance:  
2nd Surveillance:  
Expiry Date:

**Managing Director**

**CDG Certification Limited**  
C-10/11, 4th Floor, Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, New Delhi 110055, India  
Phone: +91 11 2610 8200  
E-mail: info@cdgcertification.com  
Website: www.cdgcertification.com

**CERTIFICATE OF ACCREDITATION**  
for activities of profession  
No.292018

Certification Body No. 3028  
**Institute pro testování a certifikaci, s.r.o.**  
**Certifikace orgánů pro výtvarný**  
**U. T. Hrdy 209, 742 01 Olze**

Scope of accreditation:  
Certification of consumer goods, industrial and construction products, furniture, electric and electronic devices, medical and precision equipment, toys and playground equipment, machinery, and precision equipment, food, cosmetics, pharmaceuticals, and other precision measuring products, non-ferrous chemicals, assessment of the fulfillment of criteria of the System of Certified Building Contractors to the extent as specified in the Certificate which is attached.

This Certificate of Accreditation was issued by the Czech Accreditation Institute, Public Service Company, on the basis of assessment of performance of the certification authority.

CZNI EN 01011 0198

and after being found that the certification body fulfills applicable conditions and independent verification in the scope of accreditation.

In its practice, performed within the scope and for the purpose of validity of this Certificate, the holder of this Certificate is entitled to use the designation "certified" Certificate No. 292018 in its promotional material or related correspondence concerning the activity of accreditation authority, including registration used by the Czech Accreditation Institute, Public Service Company.

This Certificate is valid until: **10 July 2019**  
and expires automatically (in the case of accreditation) on 10 July 2021

Page: 16 July 2019

Jiří Růžička  
Chief Accreditation Institute  
Public Service Company

**PERRY JOHNSON LABORATORY ACCREDITATION, INC.**

**Certificate of Accreditation**

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

**NITAN POLYCARB PVT.LTD**

(Manufacturer called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

**ISO/IEC 17025:2005**

This accreditation demonstrates technical competency for all listed tests and the operation of a laboratory quality management system (as outlined by the past ISO/IEC 17025:2005 Annex 2005).

**Chemical, Mechanical, Physical Testing of Polymers**  
(As detailed in the supplement)

Accreditation claims for each testing method certification extend only to the order form submitted additional within the certificate. This Accreditation is granted subject to the terms and conditions of the Accreditation related to above, and the Organization hereby consents with the Accreditation body (AIA) to observe and comply with the said terms.

For P.J.A.:

*Clayton J. Perry*  
Terry Barkman  
President/Operations Manager

Initial Accreditation Date: July 02, 2016  
Issue Date: June 30, 2016  
Expiration Date: June 30, 2019

Accreditation No.: 0847  
Certificate No.: L1-97

Perry Johnson Laboratory Accreditation, Inc. (P.J.A.)  
725 W. 84th Street, Suite 1123  
Troy, Michigan 48064

The validity of this certificate is maintained through ongoing assessments based on a continuous surveillance cycle. The validity of this certificate should be confirmed through the P.J.A. website: www.pja.com

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**Certificate of Accreditation: Supplement**

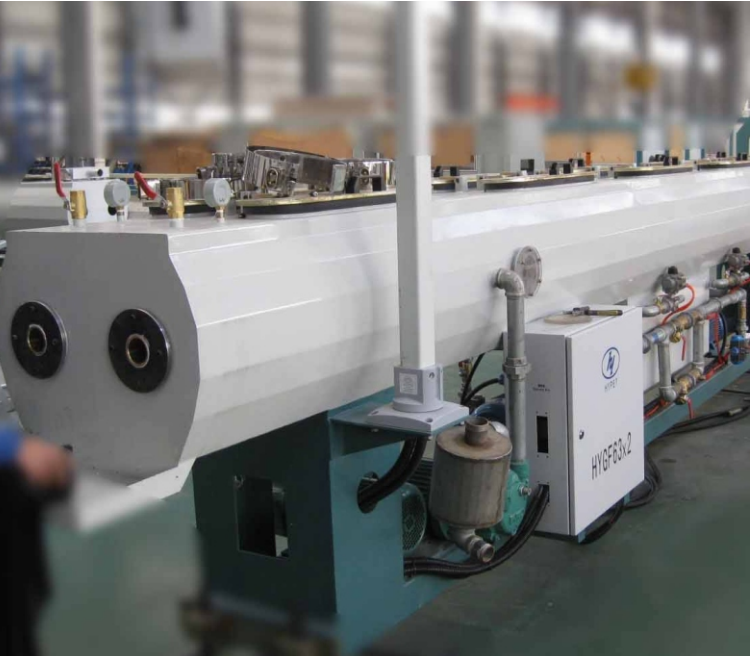
**NITAN POLYCARB PVT.LTD**

Accreditation is granted to the facility to perform the following testing:

TEST OR METHOD	APPLICABLE STANDARDS	SCOPE OF ACCREDITATION
Mechanical	Flow Rate Melt Flow Rate Differential Scanning Calorimetry Curvature	ASTM D1238, ISO 1133 Per Customer Specification ASTM D3181 Per Customer Specification ASTM E336 Per Customer Specification
Physical	Tensile Strength	ASTM D638 Per Customer Specification
	Impact Strength	ASTM D256 Per Customer Specification
	Gardner Impact	ASTM D256 10 ft. length, 1 in. dia. 10 ft. length, 1/2 in. dia. 10 ft. length, 3/8 in. dia. 10 ft. length, 3/16 in. dia.
	Thermal Modulus	ASTM D1708 Per Customer Specification
	Tensile Strength Elongation	ASTM D638 Per Customer Specification
Chemical	Yield	ASTM D638 Per Customer Specification
	Heat Deflection	ASTM D648 Per Customer Specification
	Shrink Indices	ASTM D2031 Per Customer Specification
	Ash Content	ASTM D2031 Per Customer Specification
	Infrared Analysis	ASTM D1702, ASTM D2031 Per Customer Specification
Specific Gravity	X-ray Fluorescence	ASTM F2102 Per Customer Specification
	Yield Stress	ASTM D638 Per Customer Specification
	Total Lead (Pb)	CEN-EN 18310 Range: 0.1 mg/kg to 200 mg/kg

1. The presence of a superscript 'F' means that the laboratory performs testing of the indicated parameter at its field location. Example: "Gardner Impact" would mean that the laboratory performs the testing at its field location.

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## ABOUT POLYCARB PIPES

### Profile

We, "Nitan Polycarb Pvt. Ltd.", are well appreciated name in the market established in the year 2006, at Mumbai, (Maharashtra, India). We are biggest Manufacturer & Supplier of Pvc Pipes, uPvc Pipes, Casing Pipes, Rigid Pvc Pipes, Hdpe Pipes , Ldpe Pipes, PVC Flexible Garden Hose.

We are emerging as a reputed name in the pipes industry. We specialize in the manufacture and exporter of various kinds of Pipe & Fittings. Moreover, we have a stable and strong financial background, thereby ensuring our business expansion and progressive growth at an accelerated pace.

We have always endeavoured to give the best quality of products. Highly qualified and well-experienced quality managers work with us, maintaining the level of quality required by the market. In addition to these, by offering customization facility, competitive pricing policy and supplying products on time, we are maintaining a long term relationship with our diversified clients.

We work under the headship of "Mr. Anurag Jain (Sales Director)". His sincerity and dedication help us to keep our customers contended with us. Under the guidance of our mentor "Mr. Nitin Agarwal, (Managing Director)" we have been able to reach the new heights of success. Their rich past academic record and profound expertise of this domain have helped us capture the market efficiently.

### Client Satisfaction

As optimum levels of client contentment are required to grow and diversify in this highly competitive industry, client satisfaction has remained our primary organizational goal since the days of our establishment. Our modes of payment are completely trouble free and in addition to this, the latest fabrication technologies and manufacturing equipment manned by highly qualified and skilled personnel from the industry.

### Our Infrastructure

We have positioned ourselves as the leading company engaged in this domain. This is well-equipped with the latest technology and other advanced amenities, which is managed by experienced professionals from every discipline. Our infrastructure is divided into various units like manufacturing unit, quality control unit, warehousing and packaging unit. We have constructed a very large in-house production unit that is modern and well equipped with latest equipment that helps us to create these pipes with perfection. From our preliminary stage of production of raw materials till the delivery, all the processes are alienated into many sub departments and handled under the headship of managers.

### Our Team

We have a strong team of experienced professionals, which holds conscientious knowledge of the industry and the current market scenarios. These personnel are also well-versed with the advanced equipment, machines and tools that are installed at our different departmental units.

#### Our team comprises:

- Quality controllers
- Administrative staffs
- Production controllers

### Why Us?

- Constantly effort to improve the functional efficiency of the products
- Continuous improvement of work processes to achieve maximum customer satisfaction
- Capitalize on skilled & experienced manpower
- Pool of efficient engineers adept with the latest technologies
- Empowered with strong market network

## uPVC WELL CASING PIPES

For every need of the bore well sector which includes Casing Pipes as per IS 12818, Ribbed Screen Casing Pipes for tube wells. SDR Casing Pipe series for shallow depth applications as per company standard, Plain Pipes as well as Screen (Slotted) Pipes are available in every category of Casing Pipes. Slotted Pipes can also be used for rainwater harvesting

Very encouraging results have made the Polycarb Pipe uPVC casing pipes well accepted by civil engineers, drilling contractors and government/ semi-government departments. They are ideal for domestic, irrigation, industrial, public and mining wells, etc.

Polycarb offers uPVC Well Casing Pipes & Screen Pipes manufactured as per DIN 4925.



## uPVC WELL CASING & SCREEN PIPES FEATURES AND BENEFITS

Manufactured from quality raw material	Offers high strength & durability
Processed at high end & latest state-of-the-art equipment	Keeps up with the consistency in quality and the prescribed specifications
uPVC Pipes offer excellent chemical	Non-corrosive, ensures longer lifecycle
uPVC Pipes are lighter in weight than the conventional metal pipes	Easy Handling, Transportation & Installation
Economical	uPVC Pipes cost less than other alternates Cost of transportation, handling and installation is lower, being lighter in weight no cranes, welding machines or diesel gensets are required for installation
Longevity of Lifecycle	uPVC Pipes generally have a lifecycle of up to 50 years, which saves on replacement & replenishment costs
uPVC is non-conductive	Offers excellent life avoiding electro-chemical reactions, which generally lead to encrustation of pipes
Quality water	uPVC doesn't impart any colour, odour or taste
Polycarb uPVC Well Casing Pipes offer excellent stiffness & strength	Excellent mechanical properties thus it is capable of withstanding the hydraulic pressure, the pipes are subjected to during construction of well
Polycarb uPVC Well Casing Pipes are reliable	Polycarb well casing pipes have trapezoidal threads which provide easy & stronger joints
Polycarb uPVC Screen Pipes (Plain & Ribbed) complement the well casing system	The ePVC screen pipes facilitate optimum performance & safety by keeping the gravel pack & othr foreign substances out of the well
Polycarb Upvc Screen Pipes (Plain & Ribbed) supplement better yields	The horizontal slots enable laminar flow into the well ensureing higher permeability & reducing well entrance losses, thus saving pumping energy and offer higher yields

## POLYCARB MEDIUM WELL PLAIN CASING (CM) PIPES

Nominal		Outside Dia.		Wall		Max. Outside Dia
Dia.		mm		Thickness mm		Over Socket mm
Inch	mm	Min.	Max.	Min.	Max.	
1.25	35	42	42.5	3.5	4.1	46
1.5	40	48	48.2	3.5	4.1	52
2	50	60	60.2	4.0	4.6	65
3	80	88	88.3	4.0	4.6	94
4	100	113	113.3	5.0	5.7	120
4.5	115	125	125.3	5.0	5.7	132
5	125	140	140.0	6.5	7.4	150
6	150	165	165.4	7.5	8.5	178
7	175	200	200.5	8.8	9.8	215
8	200	225	225.5	10.0	11.2	243
10	250	280	280.5	12.5	14.0	298
12	300	330	330.6	14.5	16.2	352
14	350	400	400.7	17.5	19.5	428
16	400	450	450.8	19.5	21.7	479

## SPECIFICATIONS OF POLYCARB SCREEN PIPES

### POLYCARB DEEP WELL SCREEN PIPES

Nominal Dia.		Outside Dia.		Wall Thickness mm		Max. Outside Dia
Inch	mm	Min.	Max.	Min.	Max.	Over Socket mm
<b>Deep Well Ribbed Screen (RDS) Pipes</b>						
4	100	117	117.3	7.0	7.9	129
4.5	115	129	129.3	7.5	8.5	141
5	125	144	144.4	8.0	9.0	156
6	150	169	169.4	9.5	10.7	187
8	200	229	229.5	13.0	14.8	251
10	250	284	284.5	16.0	17.6	309
12	300	334	344.6	19.0	21.0	363
14	350	404	404.7	21.5	23.9	437
<b>Deep Well Plain Screen (PDS) Pipes</b>						
4	100	113	113.3	7.0	7.9	125
4.5	115	125	125.3	7.5	8.5	137
5	125	140	140.4	8.0	9.0	152
6	150	165	165.4	9.5	10.7	183
8	200	225	225.5	13.0	14.8	247
10	250	280	280.5	16.0	17.6	304
12	300	330	330.6	19.0	21.0	359
14	350	400	400.7	21.5	23.9	433
<b>Medium Well Plain Screen (PMS) Pipes</b>						
1.25	35	42	42.2	3.5	4.0	46
1.5	40	48	48.2	3.5	4.0	53
2	50	60	60.2	4.0	4.6	66
3	80	88	88.3	4.0	4.6	94
4	100	113	113.3	5.0	5.7	121
5	125	140	140.4	6.5	7.3	150
6	150	165	165.4	7.5	8.5	179
7	175	200	200.5	8.8	9.8	217
8	200	225	225.5	10.0	11.2	243
10	250	280	280.5	12.5	14.0	298
12	300	330	330.6	14.5	16.2	352
14	350	400	400.7	17.5	19.5	428
16	400	450	450.8	19.5	21.7	479

### POLYCARB MEDIUM WELL SCREEN PIPES

Nominal Dia.		Outside Dia.		Wall Thickness mm		Max. Outside Dia
Inch	mm	Min.	Max.	Min.	Max.	Over Socket mm
<b>Medium Well Ribbed Screen (RMS) Pipes</b>						
1.25	35	46	46.2	3.5	4.0	50
1.5	40	52	52.2	3.5	4.0	56
2	50	64	64.2	4.0	4.6	69
3	80	92	92.3	4.0	4.6	98
4	100	117	117.3	5.0	5.7	124
4.5	115	129	129.3	5.0	5.7	136

Nominal		Outside Dia.		Wall		Max. Outside Dia
Dia.		mm		Thickness mm		Over Socket mm
Inch	mm	Min.	Max.	Min.	Max.	
5	125	144	144.4	6.5	7.3	154
6	150	169	169.4	7.5	8.5	182
7	175	204	204.5	8.8	9.8	219
8	200	229	229.5	10.0	11.2	247
10	250	284	284.5	12.5	14.0	302
12	300	334	344.6	14.5	16.2	356
14	350	404	404.7	17.5	19.5	432

## SPECIFICATIONS OF POLYCARB WELL CASING PIPES

### POLYCARB SHALLOW WELL PLAIN CASING (CS) PIPES

Nominal		Outside Dia.		Wall		Max. Outside Dia
Dia.		mm		Thickness mm		Over Socket mm
Inch	mm	Min.	Max.	Min.	Max.	
6	150	165.0	165.4	5.7	6.5	174
7	175	200.0	200.5	7.0	7.8	211
8	200	225.0	225.5	7.6	8.8	238
10	250	280.0	280.5	9.6	11.0	292
12	300	330.0	330.6	11.2	13.3	346
14	350	400.0	400.7	14.0	15.5	420
16	400	450.0	450.8	16.0	17.5	470

### POLYCARB DEEP WELL PLAIN CASING (CD) PIPES

Nominal		Outside Dia.		Wall		Max. Outside Dia
Dia.		mm		Thickness mm		Over Socket mm
Inch	mm	Min.	Max.	Min.	Max.	
4	100	113	113.3	7.0	7.9	125
4.5	115	125	125.3	7.5	8.5	137
5	125	140	140.4	8.0	9.0	152
6	150	165	165.4	9.5	10.7	180
7	175	200	200.5	11.8	13.6	217
8	200	225	225.5	13.0	14.8	247
10	250	280	280.5	16.0	17.6	304
12	300	330	330.6	19.0	21.0	359
14	350	400	400.7	21.5	23.9	433

#### uPVC Plain Casing Pipes As Per IS:12818

35MM to 350MM

#### Casing Slotted Pipes As Per IS:12818

35MM to 350MM

#### Ribbed Screen Pipes As Per IS:12818

50MM to 150MM



## uPVC SWR Drainage System

Polycarb uPVC SWR Drainage System is an easy & economical uPVC SWR Drainage System offers a maintenance-free product for drainage of soil waste & rain water application insolution for a longer & non-rusting and corrosion service life. residential, commercial & industrial buildings conforming to ISI-13592-92 & the Fittings conforming to ISI-14375-99, with many advantages over the conventional piping systems.

**Polycarb uPVC SWR Pipes Conforms To IS 13592-1992**

Nominal Outside Diameter D (mm)	Tolerance on Outside Diameter D (mm)	Wall Thickness Type - A (mm)		Wall Thickness Type - B (mm)	
		Min	Max	Min	Max
75	± 0.3	1.8	2.2	3.2	3.8
90	± 0.4	1.9	2.3	3.2	3.8
110	± 0.4	2.2	2.7	3.2	3.8
160	± 0.5	3.2	3.8	4	4.6

Product specifications and Pipes range are available in 75, 90, 110 and 160 mm and Fittings are available in 75 mm to 160 mm sizes. Pipes conforms to IS 13592:92 and Fittings conforms to IS 14375 and are made as per international standards. uPVC SWR Drainage System is available in — Rubber ring type joints — Fix 'O' ring type seal design.





## uPVC SWR Features & Benefits

Manufactured from quality raw material	➤ Polycarb uPVC SWR Drainage System (Offer High Strength & Durability)
World class machining	➤ Polycarb uPVC SWR Drainage System are manufactured on most sophisticated State-of-the-Art machines to ensure a flawless product at every time
Polycarb uPVC SWR Pipes are lighter in weight than the conventional metal pipes	➤ Easy handling, transportation and installation
Economical	➤ uPVC SWR Drainage System cost less than that of the other alternatives ➤ Cost of transportation, handling and installation is lower
Polycarb uPVC SWR Drainage System offers excellent chemical resistance	➤ Non-reactive with acidic & alkali substances in water, ideal for drain water discharge as well as numerous number of chemicals like strong minerals, acids that could be therein ➤ Non-Corrosive, ensures longer lifecycle
uPVC is non-conductive	➤ Polycarb uPVC SWR Drainage System offers excellent life avoiding electro-chemical reactions, which generally lead to encrustation of pipes
Longevity of lifecycle	➤ Polycarb uPVC SWR Pipes generally have a lifecycle of more than 50 years, which saves on replacement and replenishment costs
Polycarb uPVC SWR Drainage System are manufactured under stringent quality standards	➤ Polycarb uPVC SWR Drainage System offers a reliable piping system which is highly resilient, tough & durable with excellent impact strength
Ease of use	➤ Polycarb uPVC SWR Drainage Systems offer fast & easy jointing which saves on time & cost of the installation and promises a long & reliable service life
Easy access for cleaning & clearing obstruction	➤ Polycarb uPVC SWR Drainage System is designed to facilitate easy access for cleaning & clearing any obstructions
No chocking of the drainage system	➤ Polycarb uPVC SWR Drainage Systems have a smoother (inner) surface as compared to the alternate products maintaining smooth flow of the discharge & minimal obstructions which cause deposits inside the drainage system
Leak-proof joints	➤ Polycarb uPVC SWR Drainage System is designed to provide leak-proof drainage system, it provides for special rubber rings at the joints which ensures leak-proof joints
Exceeds in reliability	➤ UV stabilised ➤ Suitable for outdoor application ➤ Offers longer lifecycle

### uPVC SWR FITTINGS WITH RINGS (AS PER IS: 14375)



# uPVC Plumbing System

Polycarb uPVC Pipes being lead-free are non-toxic and hence, favoured for use in applications such as potable water pipes, specifically formulated for the use. Joining is accomplished quickly and efficiently utilising inexpensive tools thereby greatly reducing labour and installation costs.

## Applications

Polycarb Pipe range of uPVC Plumbing Pipes & Fittings can be used for an array of applications, including:

Hot and cold water distribution in residential, commercial and industrial spaces

Carrying portable water and edible fluids

Transportation of chemicals and other hot, corrosive fluids

Solar heating, central heating and radiant floor heating applications

### uPVC Plumbing Features and Benefits

Manufactured from quality raw material

World-class machining

Easy handling, transportation and installation

Economical

Excellent chemical resistance

Non-conductive

Longevity of life cycle

Quality water

Manufactured under stringent quality standards

Exceeds in reliability

Low frictional losses

▶ Leak-proof joints



# Standard Compliance

## Technical Specification

Dimensions of uPVC Plumbing Pipes confirming to ASTM D-1785

Schedule 40	Nominal Bore	Outside Diameter	Wall Thickness		Working Pressure
			Min	Max	
	(In)	mm	mm	mm	mpa
	½	21.34 ± 0.10	2.77	3.28	2.07
	¾	26.67 ± 0.10	2.87	3.38	1.65
	1	33.40 ± 0.13	3.38	3.89	1.55
	1 ¼	42.16 ± 0.13	3.56	4.07	1.27
	1 ½	48.26 ± 0.15	3.68	4.19	1.14
	2	60.32 ± 0.15	3.91	4.42	0.96
	2 ½	73.02 ± 0.18	5.16	5.77	1.03
	3	88.90 ± 0.20	5.49	6.15	0.89
	4	114.3 ± 0.23	6.02	6.73	0.76

Schedule 80	Nominal Bore	Outside Diameter	Wall Thickness		Working Pressure
			Min	Max	
	(In)	mm	mm	mm	mpa
	½	21.34 ± 0.10	3.73	4.24	2.90
	¾	26.67 ± 0.10	3.91	4.42	2.34
	1	33.40 ± 0.13	4.55	5.08	2.21
	1 ¼	42.16 ± 0.13	4.85	5.43	1.79
	1 ½	48.26 ± 0.15	5.08	5.69	1.65
	2	60.32 ± 0.15	5.54	6.20	1.38
	2 ½	73.02 ± 0.18	7.01	7.85	1.45
	3	88.90 ± 0.20	7.62	8.53	1.31
	4	114.3 ± 0.23	8.56	9.58	1.10

# Pressure Piping System

Polycarb Pipe Pressure Piping System with a wide spectrum of Pipes & Fittings in different sizes and pressure classes is an ideal solution for water supply and irrigation. Polycarb Pipe pressure piping system has become the prime choice of farmers, water supply bodies and different government institutions who have successfully replaced the conventional piping with NITAN POLYCARB PVT LTD.

Polycarb Pipe offers an exhaustive range of Pressure Pipes & Fittings. Pressure Pipes are manufactured as per IS 4985:2000 standards and are available in 20 to 450 mm sizes in different pressure classes. Pipes with both types of joints, i.e., solvent cement type and rubber seal type are available. Varieties of moulded fittings and wide range of handmade Fittings are also available. Moulded Fittings are manufactured as per IS 7834 and fabricated Fittings are manufactured.

These Pipes & Fittings are used for a variety of applications like, Agriculture, water supply, industrial process lines, swimming pools, firefighting mains, etc. These Pipes are superior to CI, DI or RCC Pipes in terms of being light in weight, easier and quicker installation, excellent corrosion and chemical resistance properties, high flow rates, long life and economy.

## POLYCARB PIPE PRESSURE PIPES TECHNICAL CHART CONFORMING TO IS: 4985

Nominal Outside Diameter	Mean Outside Diameter		Wall Thickness					
			Class 1 0.25 Mpa		Class 2 0.4 Mpa		Class 3 0.6 Mpa	
Nominal Size	Min	Max	Min	Max	Min	Max	Min	Max
20	20.0	20.3	-	-	-	-	-	-
25	25.0	25.3	-	-	-	-	-	-
32	32.0	32.3	-	-	-	-	-	-
40	40.0	40.3	-	-	-	-	1.4	1.8
50	50.0	50.3	-	-	-	-	1.7	2.1
63	63.0	63.3	-	-	1.5	1.9	2.2	2.7
75	75.0	75.3	-	-	1.8	2.2	2.6	3.1
90	90.0	90.3	1.3	1.7	2.1	2.6	3.1	3.7
110	110.0	110.4	1.6	2.0	2.5	3.0	3.7	4.3
125	125.0	125.4	1.8	2.2	2.9	3.4	4.3	5.0
140	140.0	140.5	2.0	2.4	3.2	3.8	4.8	5.5
160	160.0	160.5	2.3	2.8	3.7	4.3	5.4	6.2
180	180.0	180.6	2.6	3.1	4.2	4.9	6.1	7.1
200	200.0	200.6	2.9	3.4	4.6	5.3	6.8	7.9
225	225.0	225.7	3.2	3.9	5.2	6.0	7.6	8.8
250	250.0	250.8	3.6	4.2	5.7	6.5	8.5	9.8
280	280.0	280.9	4.1	4.8	6.4	7.4	9.5	11.0
315	315.0	316.0	4.6	5.3	7.2	8.3	10.7	12.4
355	355.0	356.1	5.1	5.9	8.1	9.4	12.0	13.8
400	400.0	401.2	5.8	6.7	9.1	10.5	13.5	15.6
450	450.0	451.4	6.5	7.5	10.3	11.9	15.2	17.5

# PRESSURE PIPE & FITTINGS FEATURES AND BENEFITS

Manufactured from quality raw material	Polycarb Pressure Pipes offer high strength & durability
World-class machining	Polycarb Pressure Pipes are manufactured on most sophisticated, state-of-the-art machines to ensure a flawless product at every time
Easy handling, transportation & installation	Polycarb Pressure Pipes are lighter in weight than the conventional metal pipes
Economical	Polycarb Pressure Pipes cost less than the other alternates Cost of transportation, handling and installation is lower
Polycarb Pressure Pipes offer excellent chemical resistance	Non-reactive with acidic & alkali substances in water Ideal for drain water discharge as well as a numerous number of chemicals like strong minerals acids that could be therein Non-corrosive, ensures longer life cycle
Polycarb Pressure Pipes are non-conductive	Offers excellent life avoiding Electrochemical reactions, which generally lead to encrustation of Pipes
Longevity of Lifecycle	Polycarb Pressure Pipes generally have a lifecycle of up to 50 years, which saves on replacement & replenishment costs
Polycarb Pressure Pipes are manufactured under stringent quality standards	Polycarb Pressure System offers a reliable piping system which is highly resilient, tough & durable with excellent impact strength
Ease of use	Polycarb Pressure Pipes offers fast & easy jointing which saves on time & cost of installation yet a long and reliable service life
Better flow for optimum yields	Polycarb Pressure Pipes have a smoother (inner) surface as compared to the alternate products maintaining smooth flow of water
Leak proof joints	Polycarb Pressure Pipes with self fit (solvent cement based) jointing system ensures leak proof jointing system for optimum results Polycarb Pressure Pipes with Elastomeric (Ring Fit) jointing provides special rubber rings at the joints which offer quick & easy installation & leak-proof joints
Exceeds in reliability	UV stabilised Suitable for outdoor application Offers longer lifecycle



# CPVC Pipes & Fittings

Polycarb CPVC Pipes & Fittings are the perfect solution for hot and cold potable water distribution requirements in residential, commercial and industrial spaces with a host of advantages over the conventional piping system. Produced from a unique blend of chlorinated polyvinyl chloride, they possess the perfect physical properties desirable for hassle free piping applications.

Our CPVC Pipes are manufactured in Copper Tube Size (CTS) between 15 mm (1/2") and 50 mm (2") from Type IV, Grade I Chlorinated Polyvinyl Chloride (CPVC) compound with a cell classification of 23447 as per ASTM D-1784. Our pipes are manufactured to be in strict compliance with ASTM D-2846 & 15-15778 meant for SDR-11 & SDR-13.5 CPVC specifications and to consistently meet or exceed the quality assurance requirements of this standard.

Our extensive range of fittings are produced as per SDR-11 and meet the requirements of ASTM D-2846M. Our pipes have a maximum service temperature of upto 93°C and stress of 2000 PSI.

Polycarb CPVC Pipes also come in Iron Pipe Size (IPS) from 2 1/2" to 4" which meet the requirement of SCH-40 and SCH-80 of ASTM F-441. Our range of CPVC Fittings are manufactured as per SDR-11.

Our CPVC Plumbing System conforms to various international quality standards approved in countries like USA, UK, Canada, Germany, France, the Netherlands and the Middle East.

If maintenance and corrosion-free service and best-in-class quality are the prerequisites for a plumbing system, Polycarb CPVC Pipes & Fittings are the perfect solution.

## APPLICATIONS

Polycarb CPVC Pipes & Fittings can be used for an array of applications, including

Hot and cold water distribution in residential, commercial and industrial spaces

Carrying potable water and edible fluids

Transportation of chemicals and other hot, corrosive fluids and

Solar heating, central heating and radiant floor heating applications

## Salient Features and Benefits

Polycarb CPVC Pipes & Fittings come replete with a range of features and benefits.

Suitable for use up to 93°C

No scaling

Detain bacterial growth

Perfect for hot and cold water usage

Life span of more than 50 years

High impact

strength and durability

Excellent resistance to chemicals

Smooth internal surface

Energy saving

Fire – resistant and self-extinguishing

Light weight

Easy to install

100% leak-proof



## STANDARD COMPLIANCE

Polycarb CPVC Pipes & Fittings are manufactured as per the following standards:

ASTM D-1784	Standard specification for Rigid Polyvinyl Chloride (PVC) Compounds and Chlorinated Polyvinyl Chloride (CPVC) compounds
ASTM D-2864/IS-15778	Specification for Chlorinated Polyvinyl Chloride (CPVC) plastic pipes For hot and cold water distribution system
ASTM F-439	Standard specification for socket-type-chlorinated Polyvinyl Chloride plastic pipes & fittings (SCH-80)
ASTM F-441	Standard specification for Chlorinated Polyvinyl Chloride (CPVC) plastic pipes (SCH-40 & 80)
ASTM F-438	Standard specification for socket-type-chlorinated Polyvinyl Chloride plastic pipes & fittings (SCH-40)
ASTM F-493	Standard specification for solvent cements for Chlorinated Polyvinyl Chloride (CPVC) plastic pipes & fittings

Performance Characteristics	Polycarb CPVC	COPPER	GI	PP-R
Corrosion	No effect due to superb chemical resistance	Corrodes over a period of time	Corrodes quickly and deteriorates	Has certain degree of resistance to chemicals
Scaling, Pitting and Leaching	Absence of scaling, pitting and leaching leads to full bore flow	Scaling, pitting and leaching leads to reduced bore flow	Severe scaling, pitting and leaching leads to reduced bore flow	Scaling, pitting and leaching may occur and reduce bore flow
Thermal Conductivity & Insulation Levels	Lower thermal conductivity reduces heat loss and requires reduced insulation levels	Extremely high thermal conductivity increases heat loss & requires higher insulation	Extremely high thermal conductivity increases heat loss & requires higher insulation	Higher thermal conductivity than CPVC; more heat loss and requires higher insulation levels
Bacterial Growth	Extremely low	More than that in CPVC	More than that in Copper	Higher than that in CPVC
Fire Resistance	LOI is 60% hence does not catch fire or sustain burning	Being metallic, exhibits better resistance to fire	Being metallic, exhibits better resistance to fire	LOI is 18% hence, can easily catch fire
Installation	Easy through cold welding; requires less man hours. No electric/heat source required	Requires highly skilled manpower and electric/heat source	Extremely slow; requires more man hours	Joining process is by heat fusion; requires greater skill and electric/heat source
Leakage	Leak-free installation for life	Leak-free, provided carried out by highly trained manpower	Always susceptible to leakage from initial day of installation	Relatively leak-free provided skilled manpower is employed
Thermal Expansion	Lower; leads to lesser pipe expansion, lesser looping and offsets	Although thermal expansion is lower, the stress induced is far greater	Although thermal expansion is lower, the stress induced is far greater	Higher expansion leads to more looping offsets



# POLYCARB®



CPVC PIPES & FITTINGS



UPVC PIPES & FITTINGS



HDPE PIPES



SWR PIPES & FITTINGS



AGRI PIPES & FITTINGS



WATER TANKS



COLUMN PIPES & ACCESSORIES



GARDEN PIPES



LD LAPETA KRISHI PIPE

Trade Inquiry Number : 8305033333

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### Sales Office :

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