

## Building plumbing DNA



Azin Looleh Sepahan Company is one of the largest producers of polypropylene single-layer pipes in Iran. The raw materials used in production process are polypropylene random copolymers (PPR TYPE 3), supplied from reputable manufacturers. The company now has 24 production lines with an annual capacity of 110 million meters of pipes in the sizes of 20 to 125 mm, and its products are under precise total quality control. Moreover, it is also active in the field of producing polypropylene fittings with a variety of more than 150 types using the most high-tech press and injection machines to make some 180 million pieces yearly.

## ■ Technical specifications (PPRCT, PPR)

Pipe Size (mm)	Standard thickness range (mm)/PPRCT	Standard thickness range (mm)/PPR	Standard external diameter range (mm)	Pipe length (m)
20	2.8-3.2	3.4-3.9	20-20.3	4
25	3.5-4	4.2-4.8	25-25.3	4
32	4.4-5	5.4-6.1	32-32.3	4
40	5.5-6.2	6.7-7.5	40-40.4	4
50	6.9-7.7	8.3-9.3	50-50.5	4
63	8.6-9.6	10.5-11.7	63-63.6	4
75	10.3-11.5	12.5-13.9	75-75.7	4
90	12.3-13.7	15-16.7	90-90.9	4
110	15.1-16.8	18.3-20.3	110-111	4
125	17.1-19	20.8-23	125-126.2	4

## ■ Raw materials technical specifications

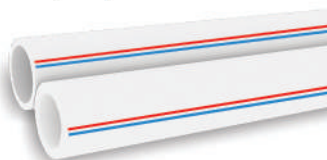
International standards	ISO 15874-2 DIN 8077/8078
Pipe structure	Single layer
Consuming materials	Polypropylene (PP) random copolymer with modified crystallization (PPRCT)
Standard production series and class	S 2.5    SDR6 S 3.2    SDR7.4
Pipe color	White with blue and red stripes
Category and user pressure	User category 1- 10 bars pressure

## ■ Advantages

- Anti-sediment, anti-decay and anti-rust.
- Insignificant pressure drop due to the low roughness coefficient (inside the pipe).
- Fast and easy to install.
- Resistant to chemicals (acids,...).
- Resistant to physical shock and environmental degradation.
- Guide lines on all pipes and fittings.
- No microorganisms growth.

## ■ Usages

- Sanitary hot & cold water piping systems (and potable water application).
- Risers installation systems.
- Industrial installations.



# Prestigious pipe



Azin<sup>+</sup>(ALS)

Three-layer PP pipes

Azin Looleh Sepahan Company as the greatest . polypropylene pipe producer in Iran, has managed to produce and market the new 3-layer polypropylene pipes as reinforced with glass fibers and having unique features comparing with other polymer pipes.

The company has already started to produce this up-to-date product under the brand name of Azin+, with an annual capacity

## ■ Technical specifications

Size (mm)	Thickness (mm)	Outer diameter (mm)
20	3.4	20.3
25	4.2	25.3
32	5.4	32.3
40	6.7	40.4
50	8.3	50.5
63	10.5	63.6
75	12.5	75.7
90	15	90.9
110	18.3	110
125	20.8	125

## ■ Features

<b>Standards</b>	ISO 21003-2 & ISO 15874-2 DIN 8077/8078
<b>Class</b>	S 2.5 - SDR 6 - PN25
<b>Type</b>	PPRC TYPE 3
<b>Color</b>	White
<b>PN</b>	10 Bars
<b>Application Class</b>	Class 1 & 5

## ■ Advantages

- Increased pressure & temperature resistance of the product compared to single-layer PPR pipes.
- Very low linear expansion coefficient in comparison with single-layer PPR pipes (about 75% less):
  - Minimizes the changes in the pipe length caused by temperature fluctuations inside the piping system.
  - Minimizes the number of pipe clips used in the piping system and hence, reduces the costs.
- Higher mechanical properties as compared to single - layer PPR pipes.
- Quick and easy installation that saves about 30% of installation time compared with PPR foil pipes.
- Less heat loss compared to PPR foil pipes and metal ones due to its lower thermal conductivity coefficient.
- impossibility of layers separation.
- Lower weight than PPR foil and metal pipes and easy transportation.



### Single Layer PP- R Pipe

Code	Size (mm)	Pieces
10008	20	140
10010	25	100
10012	32	80
10014	40	52
10016	50	32
10018	63	24
10020	75	16
10022	90	12
10024	110	8
10026	125	4



### Single Layer PPRCT Pipe

Code	Size (mm)	Pieces
60020	20	140
60025	25	100
60032	32	80
60040	40	52
60050	50	32
60063	63	24
60075	75	16
60090	90	12
60110	110	8
60125	125	4



### PP-RCT Composite Pipe

Code	Size (mm)	Pieces
50020	20	140
50025	25	100
50032	32	80
50040	40	52
50050	50	32
50063	63	24
50075	75	16
50090	90	12
50110	110	8
50125	125	4

### Socket

Code	Size (mm)	Pcs/Box
11008	20	360
11010	25	250
11012	32	140
11014	40	75
11016	50	45
11018	63	24
11020	75	20
11022	90	10
11024	110	4
11026	125	4



### Reducing Socket

Code	Size (mm)	Pcs/Box
11112	25x20	400
11114	32x20	300
11116	32x25	250
11118	40x20	180
11120	40x25	160
11122	40x32	120
11124	50x20	160
11126	50x25	160
11128	50x32	100
11130	50x40	80
11132	63x25	80
11134	63x32	80
11136	63x40	45
11138	63x50	45
11140	75x40	40
11142	75x50	32
11144	75x63	28
11146	90x50	24
11148	90x63	22
11150	90x75	18
11152	110x63	14
11154	110x75	14
11156	110x90	10
11158	125x110	3





### 90° Elbow

Code	Size (mm)	Pcs/Box
12108	20	250
12110	25	150
12112	32	80
12114	40	45
12116	50	24
12118	63	16
12120	75	8
12122	90	3
12124	110	2
12126	125	2



### Elbow (Female/Male)

Code	Size (mm)	Pcs/Box
12208	20	250
12210	25	170



### 90° Reducing Elbow

Code	Size (mm)	Pcs/Box
12312	20x25	180
12314	32x25	100



### 45° Elbow

Code	Size (mm)	Pcs/Box
12508	20	300
12510	25	180
12512	32	90
12514	40	60
12516	50	30
12518	63	16

### Reducer Tee

Code	Size (mm)	Pcs/Box
13108	20	170
13110	25	100
13112	32	55
13114	40	35
13116	50	24
13118	63	13
13120	75	5
13122	90	3
13124	110	2
13126	125	1



### Corner Tee

Code	Size (mm)	Pcs/Box
13208	20	150
13210	25	100



### Bridge with Clamp

Code	Size (mm)	Pcs/Box
16508	20	110
16510	25	75



### Reducer Tee

Code	Size (mm)	Pcs/Box
13520	25x20x20	140
13522	25x20x25	120
13524	25x25x20	110
13532	32x20x20	95
13534	32x20x32	75
13540	32x25x32	65
13541	40x20x40	50
13542	40x25x40	40
13545	40x32x40	35
13562	50x25x50	24
13565	50x32x50	24
13572	63x25x63	13
13574	63x32x63	13
13576	63x40x63	13
13578	63x50x63	13







### End-Cap

Code	Size (mm)	Pcs/Box
14108	20	650
14110	25	370
14112	32	250
14114	40	150
14116	50	80
14118	63	40
14120	75	28
14122	90	18
14124	110	10



### Cross Over

Code	Size (mm)	Pcs/Box
16108	20	80
16110	25	50
16112	32	30



### Curved Pipe with Socket

Code	Size (mm)	Pcs/Box
16208	20	85
16210	25	55



### Cross

Code	Size (mm)	Pcs/Box
17108	20	130
17110	25	90



### FT Wall Elbow

Code	Size (mm)	Pcs/Box
20108	20x1/2 "	120
20110	20x3/4 "	80
20112	25x1/2 "	95

### MT Wall Elbow

Code	Size (mm)	Pcs/Box
20508	20x1/2 "	95
20509	20x3/4 "	80
20512	25x3/4 "	70



### FT Socket

Code	Size (mm)	Pcs/Box
21008	20x2/1 "	190
21010	20x4/3 "	140
21011	25x2/1 "	180
21012	25x4/3 "	150
21014	32x1 "	75
21116	40x1/4 1 "	50
21118	50x1/2 1 "	36
21120	63x2 "	24
21122	75x1/2 2 "	15
21124	90x3 "	5
21126	110x4 "	4



### MT Socket

Code	Size (mm)	Pcs/Box
21208	20x1/2 "	160
21210	20x3/4 "	110
21211	25x2/1 "	140
21212	25x4/3 "	110
21214	32x1 "	65
21316	40x1/4 1 "	37
21318	50x1/2 1 "	27
21320	63x2 "	16





### FT Elbow

Code	Size (mm)	Pcs/Box
23008	20 x 1/2 "	150
23010	20 x 3/4 "	120
23012	25 x 2/1 "	120
23014	25 x 4/3 "	100
23016	32 x 4/3 "	80
23018	32 x 1 "	60
23020	40 x 1/4 1 "	36
23022	50 x 1/2 1 "	20
23024	63 x 2 "	12



### Armature Connector

Code	Size (mm)	Pcs/Box
23208	20 x 1/2 "	30
23212	25 x 1/2 "	24



### MT Elbow

Code	Size (mm)	Pcs/Box
23508	20 x 1/2 "	120
23509	20 x 3/4 "	90
23510	25 x 3/4 "	80
23511	25 x 1/2 "	100



### FT Transition Socket

Code	Size (mm)	Pcs/Box
23514	20 x 1/2 "	150
23515	25 x 3/4 "	100
23516	32 x 1 "	70
23518	40 x 1/4 1 "	45
23520	50 x 1/2 1 "	28
23522	63 x 2 "	20



### FT Union

Code	Size (mm)	Pcs/Box
24530	20 x 1/2 "	85
24532	25 x 3/4 "	60

### MT Union

Code	Size (mm)	Pcs/Box
24531	20 x 1/2 "	80
24533	25 x 3/4 "	55



### FT Tee

Code	Size (mm)	Pcs/Box
25008	20 x 1/2 "	120
25010	20 x 3/4 "	100
25012	25 x 1/2 "	90
25014	25 x 3/4 "	80
25018	32 x 1 "	40



### MT Wall Tee

Code	Size (mm)	Pcs/Box
25506	20 x 1/2 "	100



### FT Wall Tee

Code	Size (mm)	Pcs/Box
26010	20 x 1/2 "	100
26014	25 x 1/2 "	70
26016	25 x 3/4 "	60



### MT Wall Tee

Code	Size (mm)	Pcs/Box
26510	20 x 1/2 "	80
26518	25 x 3/4 "	60



### Union

Code	Size (mm)	Pcs/Box
40202	20	90
40204	25	70
40206	32	50
40212	63	12





### Ball Valve

Code	Size (mm)	Pcs/Box
40308	20	65
40310	25	45
40312	32	28
40314	40	15
40316	50	8
40318	63	8



### 45° Stop Valve (Both Side Welding)

Code	Size (mm)	Pcs/Box
40513	25	25



### Stop Valve

Code	Size (mm)	Pcs/Box
40808	20	55
40810	25	35
40812	32	25
40814	40	20



### Stop Valve Core

Code	Size (mm)	Pcs/Box
40848	20	150
40850	25	100
40852	32	80



### Flange Socket

Code	Size (mm)	Pcs/Box
30218	63	24
30220	75	14
30222	90	14
30224	110	12

### Flange Socket Adapter

Code	Size (mm)	Pcs/Box
30318	63	45
30320	75	36
30322	90	15
30324	110	10



### Ice Preventer Liquid

Code	Capacity
18012	20