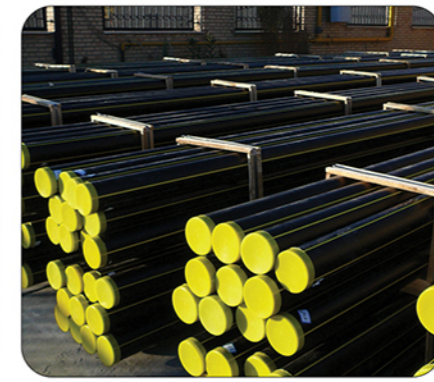
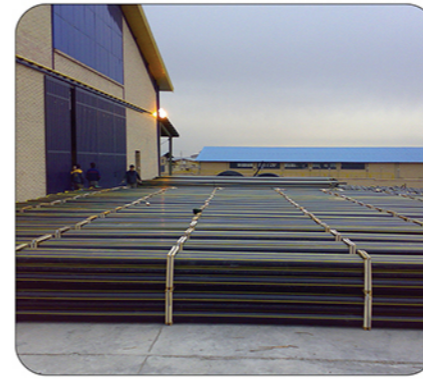


Poly Ethylene Gostaran Alborz

Poly Ethylene Gostaran Alborz (P.J.S)

Producing polyethylene gas distribution pipes from 25 to 225 mm.



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Location and specifications of polyethylene Gostaran Alborz factory

Polyethylene Gostaran Alborz Company located at Eshtehard industrial Town (Alborz Province) was established and operated with capacity 8000 tons annually.

The production machineries were bought from Krauss Maffei Company of Germany and in addition of enjoying from the last manufacturing technology of types of polyethylene pipes, also is equipped with unique and developed facilities e.g. screen charger system, which prevented from any waste materials e.g. wood, metal and any non melted granola or other out materials to the set. Meanwhile the production lines of this factory is equipped with complete ultrasonic and gravimetric system which are unique in current technology, and covered pipe surfaces completely. As per the geographical situation of the factory in Alborz Province, the possibility of loading produced materials to other countries through state highways networks will be possible easily.

The factory machineries has ability of producing polyethylene pipes in three parts as below,

1. For urban and rural gas distribution consumption
2. For water distribution consumption and waste water transfer lines
3. For telecommunication, agricultural, industrial and special orders consumption

1. Gas distribution pipes are produced on the base of Iran national gas Company confirm by using first materials PE100 as per the below table.

SDR	D(mm)	Thickness (mm)							
		25	63	90	110	125	160	200	225
SDR11	S(mm)	3	5.8	8.2	10	11.4	14.6	18.2	20.5
	W(Kg)	0.211	1.05	2.12	3.14	4.08	6.67	10.4	13.1
SDR13.6	S(mm)	--	--	6.7	8.1	9.2	11.8	14.7	16.6
	W(Kg)	--	--	1.77	2.62	3.37	5.5	8.56	10.9

2. Polyethylene pipes that can be used in urban water supply industries and sewage transmission lines can be produced in this company according to national and international standards according to the raw materials required by the client and as described in the table below.

SDR	PN (bar)	Outer Diameter (mm)																																			
		51	41	33	26	22	21	17.8	17	13.6	11	9	7.4	6	5																						
PE83	PN	2	2.5	3.2	4	4.8	5	6	6.3	8	10	12.6	16	20	25																						
SF1.25	PN	1.6	2	2.4	3.1	3.7	3.9	4.7	4.9	6.2	7.8	9.8	12.3	15.7	19.7																						
PE83	PN	2.5	3.2	4	5	6	6.3	7.5	8	10	12.5	16	20	25.8	32																						
SF1.25	PN	2	2.5	3.1	4	4.7	5	6	6.2	7.8	10	12.5	15.6	20	25																						
PE80	PN	3.2	4	5	6.3	7.5	8	9.6	10	12.5	16	20	25	32	40																						
SF1.6	PN	2.5	3.1	3.9	5	5.9	6.2	7.5	7.8	9.9	12.5	15.6	19.5	25	31.2																						
PE100	PN																																				
SF1.25	PN																																				
OD (mm)		D	M	D	M	D	M	D	M	D	M	D	M	D	M																						
16										1.8	0.84	2.2	0.99	2.7	0.115	3.3	0.133																				
20										1.8	0.107	1.9	0.112	2.3	0.133	2.8	0.154	3.4	0.180	4.1	0.207																
25										1.8	0.137	1.9	0.144	2.3	0.171	2.8	0.200	3.5	0.240	4.2	0.278	5.1	0.320														
32										1.8	0.179	1.9	0.187	2.4	0.232	2.9	0.272	3.6	0.327	4.4	0.388	5.4	0.454	6.5	0.520												
40										1.8	0.227	1.9	0.238	2.9	0.285	3.6	0.428	4.5	0.509	5.5	0.600	6.7	0.701	8.1	0.809												
50										1.8	0.287	2	0.314	2.3	0.361	2.4	0.374	2.9	0.440	3.0	0.453	3.7	0.549	4.6	0.666	5.6	0.788	6.9	0.936	8.3	1.09	10.1	1.26				
63										1.8	0.384	2.0	0.399	2.5	0.494	2.9	0.583	3.0	0.580	3.6	0.688	3.8	0.721	4.7	0.873	5.8	1.05	7.1	1.26	8.6	1.47	10.5	1.73	12.7	1.99		
75										1.8	0.436	1.9	0.457	2.3	0.551	2.9	0.675	3.5	0.807	3.6	0.828	4.3	0.976	4.5	1.02	5.6	1.24	6.8	1.47	8.4	1.76	10.3	2.09	12.5	2.44	15.1	2.82
90										1.8	0.525	2.2	0.643	2.8	0.791	3.5	0.978	4.1	1.14	4.3	1.19	5.1	1.39	5.4	1.46	6.7	1.77	8.2	2.12	10.1	2.54	12.3	3.00	15.9	3.51	18.1	4.05
110										1.8	0.786	2.7	0.943	3.4	1.17	4.2	1.43	5.0	1.67	5.3	1.77	6.3	2.08	6.6	2.17	8.1	2.82	10.0	3.14	12.3	3.78	15.1	4.49	18.3	5.24	22.1	6.04
125										1.8	1.00	3.1	1.23	3.9	1.15	4.8	1.84	5.7	2.16	6.0	2.27	7.1	2.66	7.4	2.76	9.2	3.37	11.4	4.08	14.0	4.87	17.1	5.77	20.8	6.75	25.1	7.79
160										1.8	1.63	4.0	2.00	4.9	2.42	6.2	3.04	7.3	3.54	7.7	3.72	9.1	4.35	9.5	4.52	11.8	5.50	14.6	6.67	17.9	7.96	21.9	9.44	26.8	11.0	32.1	12.7
200										1.8	2.46	4.9	3.05	6.2	3.84	7.7	4.69	9.1	5.51	9.6	5.78	11.4	6.79	11.9	7.05	14.7	8.56	18.2	10.4	22.4	12.4	27.4	14.8	32.2	17.2	40.1	19.9
250										1.8	3.83	6.2	4.83	7.7	5.92	9.6	7.30	11.4	8.59	11.8	8.93	14.2	10.6	14.8	11.0	18.4	13.4	22.7	16.2	27.9	19.4	34.2	23.0	41.6	27.0	50.1	31.1

SF : Safety Factor PN : Nominal Pressure OD : Outer Diameter D : Thickness in mm M : Mass in Kg/m

3. It is possible to produce polyethylene pipes for industrial telecommunications and special orders according to the needs of the client and the ability of the production lines of this factory

Quality control

The extraordinary sensitivity and special needs of the gas and water supply industries, as well as the superior quality strategy, which is one of the basic principles of industrial production in Polyethylene Gostaran Alborz, have made quality assurance a strategic principle in Polyethylene Gostaran Alborz Company.

Trained specialists of modern equipment, production of quality control unit and professional and effective quality management system in the shadow of senior management's commitment to "quality is the path-breaker of the company in achieving the lofty goals of the organization." Based on this, in addition to obtaining mandatory standard certificates for the production of gas and water supply polyethylene pipe products from the Iranian National Standard Organization with the PEGA brand, the company has also obtained ISO 17025 quality management system and ISO 9001-2015 in the organization has implemented itself.

Quality control laboratory

In order to carry out numerous tests on the samples extracted from the pipes based on the standard requirements of Iran National Gas Company, an industrial laboratory with the most modern equipment has been purchased and equipped from the most reliable global manufacturers such as the German IPT company. Also, this company has succeeded in obtaining the certificate of approval of the qualification of the partner laboratory from the National Standard Organization of Iran. The following are some of the tests that can be performed in the laboratory of Gostaran Alborz polyethylene factory.

- Hydrostatic Strength test
- Resistance to short-time hydraulic pressure (Burst)
- Oxidation induction time test - Isothermal OIT
- Conventional density test
- Melt mass - flow rate of pipe test (MFR)
- Carbon black content test (CC)
- Elongation at break (Tensile) test
- Carbon black dispersion (CD)
- Squeeze-Off test

Our goal is to gain customer satisfaction and trust

Customer orientation and customer satisfaction is the most important goal of Polyethylene Gostaran Alborz Company. In this regard, Polyethylene Gostaran Alborz Company aims to raise and improve the quality of production of gas and water supply pipes according to the standards of Iran National Gas Company and international standards has established

According to the infrastructure established in polyethylene Gostaran Alborz factory, conditions have been created that allow the organization to apply the production operation system and quality control, by which the production of the product in accordance with the customer's satisfaction is guaranteed

