

DELA V[®]
LANDSCAPE SUPPLY

DELA V[®]
P L A S T

PRODUCT CATALOGUE



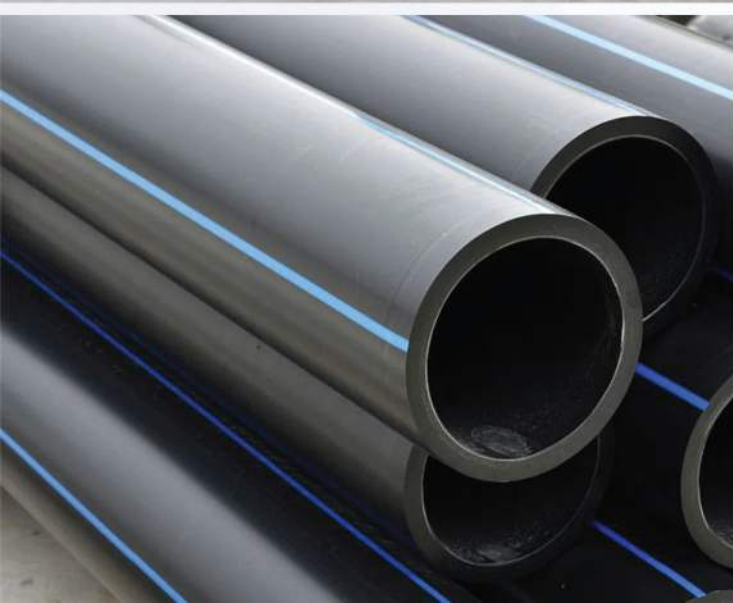
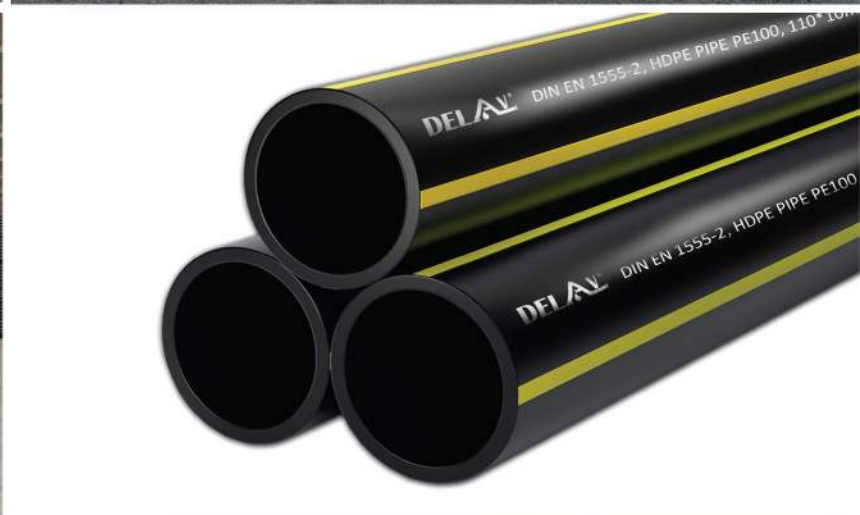
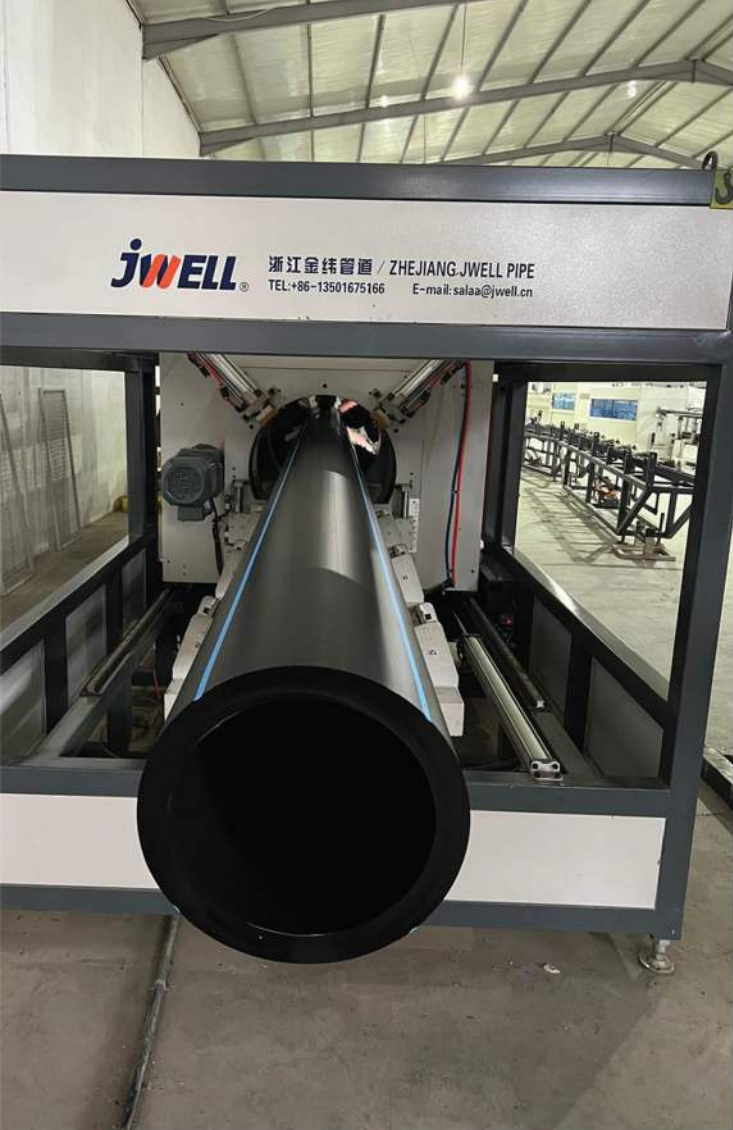


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International Certificates & Test Reports

Delav Plast Factory has achieved multiple worldwide certificates and international test reports to verify the quality and originality of PE pipes and products by showcasing and analyzing the used



WRAS Britain



TUV PAS 1075:2009



TUV EN 12201-2:2024



TUV ISO 4427-2:2019



TUV EN ISO 17025:2012



TUV EN 1555-2:2025



TUV EN ISO 9001:2015



TUV ISO 45001:2018



HESSEL Germany



DTI Denmark



DVGW Germany



TZW Germany

About Us

Delav Company for General Trading, Irrigation Equipment, Pesticides, Fertiliser & Agricultural Seeds Ltd. was founded in 2009 by Mr. Luqman Sheikani and is a leading provider of irrigation solutions and polyethylene piping systems across the Kurdistan Region and Iraq, driven by a strong focus on innovation, quality, and sustainability.

Delav is the exclusive distributor of internationally renowned brands including Hunter Industries (USA), Elysee (Cyprus), Poelsan (Turkey), Agrodrip, and Irritec (Italy), delivering advanced irrigation technologies and globally trusted solutions to the agricultural, landscaping, and infrastructure sectors.

The company owns and operates Delav Plast Factory in Erbil, a state-of-the-art facility producing PE100 and PE100-RC (Resistant to Crack) pipes in diameters from 20 mm to 630 mm and pressure ratings from 4 to 32 bars, with an annual capacity of approximately 15,000 tons. These pipes are designed for durability and high performance in strategic water transportation projects, irrigation, gas distribution, telecommunications, and cable distribution, supported by advanced production lines and strict quality control systems.

Delav Plast operates a modern laboratory in accordance with EN ISO 17025:2012 obtained from TUV Austria, ensuring precise mechanical, physical, and chemical testing with full traceability and compliance with international standards.

The company's management system is certified by TUV Austria to EN ISO 9001:2015 and ISO 45001:2018. Delav Plast holds TUV Austria Certificates of Conformity based on PAS 1075:2009 for PE100-RC pipes, also compliant with EN 12201-2:2024 and ISO 4427-2:2019 for water supply systems, and EN 1555-2:2025 for gas distribution applications.

Delav Plast products are certified by Hessel in Germany for the Full Quality Testing Cycle PAS 1075 Type 1 for PE100-RC, has also obtained British WRAS Approval (240755027). The factory is registered with the German DVGW under certification numbers 22-0583-WNE and 22-0585-WHE, with the required tested obtained from TZW (Germany) and DTI (Danish Technological Institute), also its PE100 pipes have been tested by Salahaddin University Laboratory in Erbil, R.M.G Laboratory, and several other reputable institutions.

With strong international partnerships, advanced manufacturing capabilities, and a commitment to quality and reliability, Delav Company continues to deliver high-performance solutions for infrastructure and water management projects across the region.

Delav Plast Factory

Delav plast factory was founded in 2017 to produce all types of plastic pipes from polyethylene, using global standard sizes from 20mm to 630mm at 4 to 32 bar. PE100 and PE100-RC pipes produced by Delav Plast in high quality and long lasting which can be used in various purposes and projects after running through multiple tests and experiments in a special laboratory using modern technics and equipment.

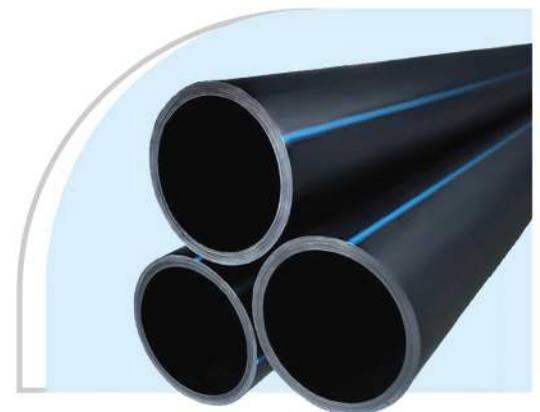
Polyethylene Pipes Produced By Delav Plast Factory

PE100 Pipe Advantages

- Long lasting, corrosion-free, non-decaying and highly resistant.
- Flexible, easy to transport.
- High resistance to sunlight.
- Non-leaking under pressure.
- Inexpensive in comparison with metal equipment.
- When manufactured in coils, fewer connections needed.
- Possibility of welding prevents water loss.
- Resistance to shock.
- More convenient than metal pipes in earthquake and landslide zones, thanks to 350% flexibility.

PE100 Pipe Uses

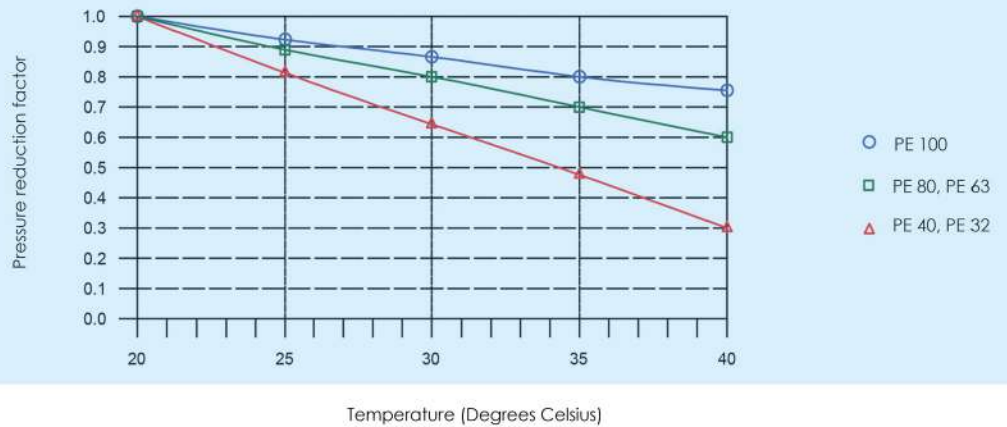
- Drinking water systems.
- Landscape & agricultural watering systems.
- Water supply.
- Gas distribution.
- Telecommunication and cable conduit.



Polyethylene Pipes Produced By Delav Plast Factory

Description	Polyethylene pipes for low and high pressure water supply, conveyance of other suitable fluids and irrigation systems.
Range	Metric series from 20mm to 630mm, Imperial series from 1/2" to 25"
Pressure Rating	Pipes are available with pressure rating from 4 up to 32 bar at 20 C. Maximum working pressure is related to the SDR (diameter/thickness ratio), the safety coefficient C and the MRS of the pipe material.

The pressure rating has to be adjusted as shown in the figure below, if the pipes are to be used at higher temperatures.



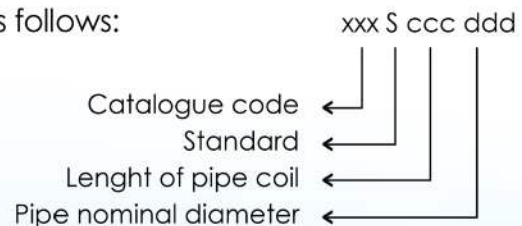
Methods of Joining Pipes in the range 20mm to 110mm can be joined by using pipe compression fittings, and for pipes in the range 125mm to 630mm by butt fusion welding or electrofusion.

Lengths Available Straight lengths of 6 and 12 meters or coils of 50, 100 and 200 meters.

Materials Low (PE32 & PE40), medium and high density PE pipes are approved for use in potable water supply systems. Black PE pipes are suitable for long exposure to sunlight (UV) and give excellent chemical resistance.

Code for PE Pipes The code for PE pipes reads as follows:

Example:
 Order code 110S10090 stands for:
 Standard 90mm, 100
 meter pipe coil, code list 110 in
 Delav Product Catalogue.



Polyethylene Pipe Application

Polyethylene Pipe Applications Polyethylene pipes are widely used in various applications due to their excellent properties and versatility, the specific type and grade of PE pipe used may vary depending on the requirements of the application and the regulations.

Common applications of polyethylene pipes:



1-Water Supply

PE pipes are extensively used for water distribution and supply systems, including potable water, irrigation, and industrial water supply. They offer high resistance to corrosion, chemicals, and weathering, making them suitable for both above-ground and buried installations. PE Pipes for water supply are produced by Delav Plast factory according to DIN 8074/ PAS 1075 Type 1 (Germany) and EN 12201-2/ ISO 4427-2 standard and marked with blue stripes referring to potable water.

2- Gas Distribution

PE pipes are widely employed for natural gas and propane distribution networks. They have excellent resistance to gas permeation and are lightweight, making them easier to install and handle compared to other materials. PE Pipes for gas distribution are produced by Delav Plast factory according to DIN EN 1555-2:2021 standard and marked with yellow stripes referring to gas distribution.



Polyethylene Pipe Applications

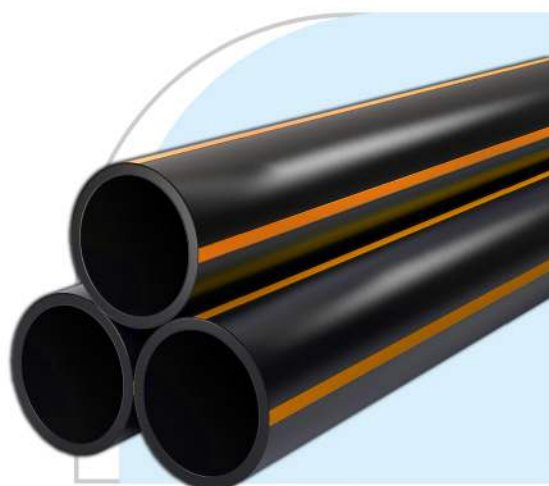
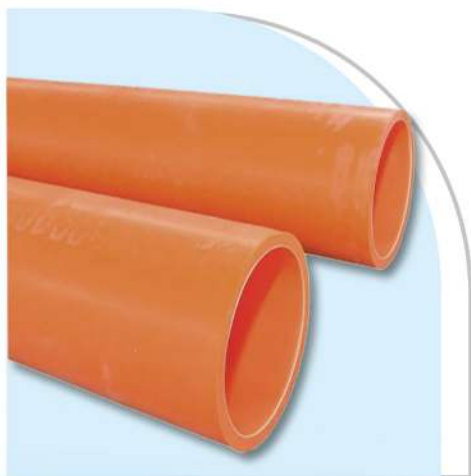
Polyethylene pipes are widely used in various applications due to their excellent properties and versatility, the specific type and grade of PE pipe used may vary depending on the requirements of the application and the regulations.

Common applications of polyethylene pipes:

3- Telecommunication and Cable Conduit

PE pipes serve as conduits for underground telecommunication cables, fiber optics, and electrical wires. They provide protection, flexibility, and ease of installation for the transmission of signals and power.

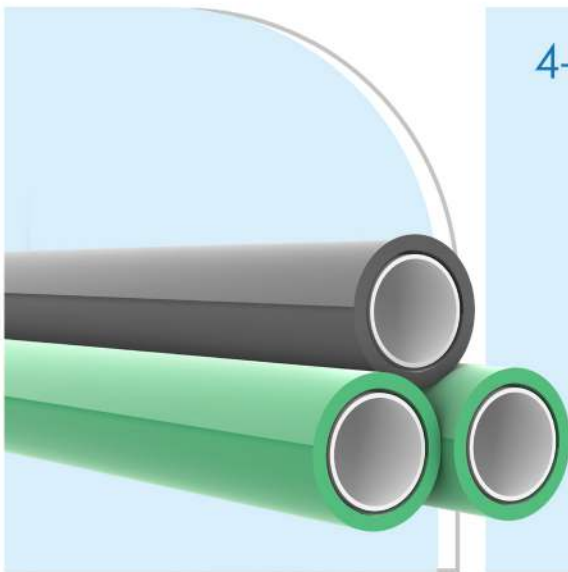
PE Pipes for cable conduit are produced by Delav Plast factory according to EN 12201-2 standard and marked with orange stripes or fully orange pipe referring to cable conduit.



Polyethylene Pipe Application

Polyethylene Pipe Applications Polyethylene pipes are widely used in various applications due to their excellent properties and versatility, the specific type and grade of PE pipe used may vary depending on the requirements of the application and the regulations

Common applications of polyethylene pipes:

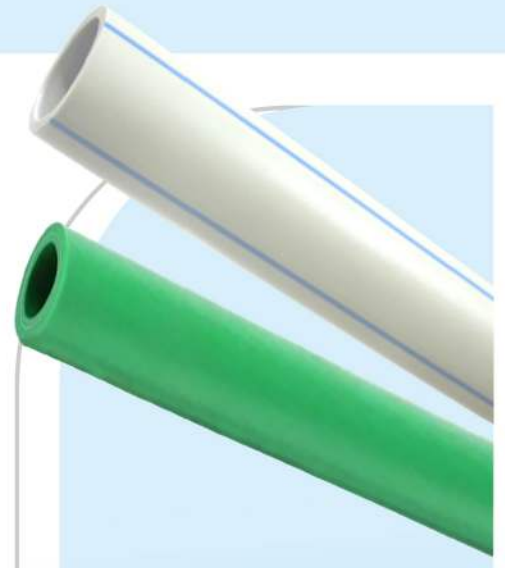


4- PPR PIPE

PPR (Polypropylene Random Copolymer) pipes are widely used in plumbing and piping systems particularly for transporting hot and cold water for household purposes. They are favored for their durability, resistance to high temperatures, and corrosion resistance PPR pipes are produced according to international standard ISO 15874.

5- PP PIPE

polypropylene pipe system is priced for its ability to be used in a variety of applications for polypropylene pipe systems including: acid transportation, alkali transportation, chemical processing, industrial waste treatment, pharmaceutical industries, biotechnology industries, hospital and laboratory applications according to ISO 15874 standard.



Marking - PE100-RC

All pipes include clear, permanent marking at each meter length, made with ident printing in a color contrasted to the pipe color (white, black or yellow) The following information is printed on the pipe

- Manufacturer name or symbol
DELAV
- Standard number
DIN 8074/75 PAS 1075 Type 1
- Material designation
e.g. PE100-RC
- Dimensions (diameter x wall thickness)
e.g. Ø 110*10 mm
- SDR series
e.g. SDR11
- MFR or MVR value
e.g. MFR: 0.21 g/10min
- intended use
e.g. water supply
- Line number
e.g. line 2
- Production date and place
e.g. Made in IRAQ, 20/02/2022
- Length
e.g. Length: 100m
 - * 20 - 50mm Length: from 50 to 500m
 - * 50 - 125mm Length: 6, 12, 50 and 100m
 - * 125 - 630mm Length: 6 and 12m

Latest technologies for ident printing have been applied as well, using laser marking where a bar code having all the above information can be printed in 128 C in accordance with ISO 12176-4: 2003 on the pipe.

DELAV[®] DIN 8074/75 PAS 1075 Type 1, PE100-RC, Ø 110*10 mm, SDR11, MFR: 0.21 g/10min, Water Supply, Line 3, Made in IRAQ, 20/02/2022, Length:

Marking Pipes - PE100

All pipes include clear, permanent marking at each meter length, made with ident printing in a color contrasted to the pipe color (white, black or yellow). The following information is printed on the pipe:

- Manufacturer name or symbol
DELAV
- Standard number
EN 12201-2 / ISO 4427-2
- Material designation
e.g. HDPE Pipe PE100
- Dimensions (diameter x wall thickness)
e.g. Ø 110*10 mm
- Pressure rating bar
e.g. PN16
- SDR series
e.g. SDR11
- Intended use
e.g. Water Supply
- Shift and line
e.g. Shift A, Line 2
- Production date and place
e.g. Made in IRAQ, 20/02/2022
- Length
e.g. Length: 100m
 - * 20 - 50mm Length: from 50 to 500m
 - * 50 - 125mm Length: 6, 12, 50 and 100m
 - * 125 - 630mm Length: 6 and 12m

Latest technologies for ident printing have been applied as well, using laser marking where a bar code having all the above information can be printed in 128 C in accordance with ISO 12176-4: 2003 on the pipe.

Delav Plast Laboratory - EN ISO 17025:2012

Delav Plast owns an advanced scientific laboratory that uses modern technology and equipment to measure and test the produced pipes and to provide accurate and precise results of production qualities. Delav Plast Lab tests and experiments runs with the requirements of standard ISO-17025 in order to provide demands and legal requirements with liability, honesty, confidentiality and respect.



Test Methods

Test Standard

• Appearance	ISO 4427-2
• Effect of water quality	ISO 4427-2
• Marking.....	ISO 4427-2
• Minimum thickness (mm)	ISO 4427-2
• Average diameter (mm)	ISO 4427-2
• Maximum out-of-roundness (ovality)	ISO 4427-2
• Melt mass flow rate (gr/10min)	ISO 1133
• Density (gr/cm ³)	ISO 1183-a
• Carbon black content (% by mass)	ISO 6964
• Dispersion	ISO 18553
• Appearance after the test dispersion	ISO 18552
• Oxidation induction time at 200°C (min)	ISO 11357-6
• Longitudinal reversion (%)	ISO 2505
• Hydrostatic strength at 20°C	ISO 1167-1
• Hydrostatic strength at 80°C	ISO 1167-1
• Elongation at break	ISO 6259-1,3
• PE pipe for gas distribution	ISO 4337

HDPE Pipe PE100 Standard Table According to ISO 4427-2 / BS EN 12201-2

DN mm	PN 5			PN 6			PN 8			PN 10			PN 12.5			PN 16			PN 20			PN 25			PN 32				
	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6		
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
315	9.7	10.8	9.47	12.1	13.5	11.7	15.0	16.6	14.3	18.7	18.2	21.1	23.4	22.4	26.1	28.9	27.2	32.2	35.6	39.7	43.8	43.1	48.5	53.5	46.8	59.0	65.0	54.8	
355	10.9	12.1	12.0	13.6	15.1	14.8	16.9	18.7	18.2	21.1	23.4	26.2	29.5	29.3	36.1	40.6	43.7	50.1	55.5	63.4	75.2	78.1	81.7	98.0	125.0	-	-	-	
400	12.3	13.7	15.2	15.3	17.0	18.8	19.1	21.2	23.1	23.7	26.2	28.3	32.8	35.8	44.2	53.9	63.6	75.2	81.7	98.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
450	13.8	15.3	19.2	17.2	19.1	23.7	21.5	23.8	29.3	26.7	29.5	35.8	44.2	53.9	63.6	75.2	81.7	98.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
500	15.3	17.0	23.6	19.1	21.2	29.2	23.9	26.4	36.1	29.7	32.8	44.2	53.9	63.6	75.2	81.7	98.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
560	17.2	19.1	29.7	21.4	23.7	36.6	26.7	29.5	45.2	33.2	36.7	55.4	67.6	81.7	98.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
630	19.3	21.4	37.5	24.1	26.7	46.4	30.0	33.1	57.0	37.4	41.3	70.2	85.5	103.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0

PE100-RC Standard table According to DIN 8074/75 PAS 1075 Type 1

DN	PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20		PN 25		PN 32	
	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6									
mm	S	m	S	m	S	m	S	m	S	m	S	m	S	m	S	m	S	m
kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	1.8	0.229	2.0	0.251	2.0	0.299	3.0	0.360	3.7	0.434	4.5	0.514	5.5	0.607	6.7	0.708	8.3	1.10
50	2.0	0.317	2.4	0.378	3.0	0.458	4.6	0.555	5.6	0.673	6.9	0.796	9.9	1.19	1.45	1.86	2.35	3.08
63	2.0	0.403	2.5	0.500	3.0	0.586	3.8	0.728	4.7	0.883	5.8	1.06	7.1	1.27	8.6	1.49	10.5	1.74
75	2.3	0.557	2.9	0.683	3.6	0.836	4.5	1.03	5.6	1.25	6.8	1.48	8.4	1.78	10.3	2.12	12.5	2.47
90	2.8	0.800	3.5	0.988	4.3	1.20	5.4	1.47	6.7	1.79	8.2	2.14	10.1	2.57	12.3	3.03	15.0	3.54
110	3.4	1.19	4.2	1.45	5.3	1.79	6.6	2.19	8.1	2.64	10.0	3.18	12.3	3.82	15.1	4.54	18.3	5.29
125	3.9	1.53	4.8	1.86	6.0	2.29	7.4	2.79	9.2	3.40	11.4	4.12	14.0	4.92	17.1	5.84	20.8	6.82
140	4.3	1.90	5.4	2.35	6.7	2.86	8.3	3.50	10.3	4.26	12.7	5.13	15.7	6.18	19.2	7.33	23.3	8.56
160	4.9	2.45	6.2	3.08	7.7	3.75	9.5	4.57	11.8	5.56	14.6	6.74	17.9	8.04	21.9	9.54	26.6	11.2
180	5.5	3.10	6.9	3.83	8.6	4.71	10.7	5.77	13.3	7.05	16.4	8.51	20.1	10.2	24.6	12.1	29.9	14.1
200	6.2	3.88	7.7	4.74	9.6	5.84	11.9	7.12	14.7	8.65	18.2	10.5	22.4	12.6	27.4	14.9	33.2	17.4
225	6.9	4.82	8.6	5.96	10.8	7.37	13.4	9.03	16.6	11.0	20.5	13.3	25.2	15.9	30.8	18.8	37.4	22.1
250	7.7	5.98	9.6	7.38	11.9	9.02	14.8	11.1	18.4	13.5	22.7	16.3	27.9	19.6	34.2	23.3	41.5	27.2
280	8.6	7.47	10.7	9.2	13.4	11.4	16.6	13.9	20.6	16.9	25.4	20.5	31.3	24.6	38.3	29.2	46.5	34.1
315	9.7	9.47	12.1	11.7	15.0	14.3	18.7	17.6	23.2	21.5	28.6	25.9	35.2	31.1	43.1	36.9	52.3	43.2
355	10.9	12.0	13.6	14.8	16.9	18.2	21.1	22.4	26.1	27.2	32.2	32.9	39.7	39.5	48.5	46.8	59.0	54.8
400	12.3	15.2	15.3	18.8	19.1	23.1	23.7	28.3	29.4	34.5	36.3	41.7	44.7	50.1	54.7	59.4	66.5	69.6
450	13.8	19.2	17.2	23.7	21.5	29.3	26.7	35.8	33.1	43.7	40.9	52.8	50.3	63.4	61.5	75.2	-	-
500	15.3	23.6	19.1	29.2	23.9	36.1	29.7	44.2	36.8	53.9	45.4	65.2	55.8	78.1	68.3	92.8	-	-
560	17.2	29.7	21.4	36.6	26.7	45.2	33.2	55.4	41.2	67.6	50.8	81.7	62.5	98.0	-	-	-	-
630	19.3	37.5	24.1	46.4	30.0	57.0	37.4	70.2	46.3	85.5	57.2	103.0	-	-	-	-	-	-

Polyethylene Irrigation Pipe Systems

There are 2 types of irrigation pipes depending on connection systems. These are High Density Polyethylene (HDPE) and Low Density Polyethylene (LDPE) Pipes which are 5 or 6 meters long in production.

Our products have high durability and quality which are all designed and produced with high techincs. These pipes do not leak water at joint ports even after years used under high pressure and hard enviroment conditions.

هناك نوعان من أنابيب الري حسب نظام التوصيل، وهما أنابيب البولي إيثيلين عالي الكثافة (HDPE) وأنابيب البولي إيثيلين منخفض الكثافة (LDPE) التي يبلغ طولها 5 أو 6 أمتار. تتميز منتجاتنا بالمتانة والجودة العالية، وهي مصممة ومُصنَّعة بتقنيات متطورة ولا تتسرب المياه من هذه الأنابيب عند أماكن التوصيل حتى بعد سنوات طويلة من استخدامها تحت ضغط عالٍ وظروف بيئية قاسية.





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