

Abrah Dashte Markazi

High performance PE Pipe for Water





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Approvals /standards

	Dimensions, general quality requirements and tests	Standards and guidelines also applicable	
PIPE			
PE 80 / PE 100 pressure pipes	DIN 8074/8075	ISIRI 14427	
PE 80/PE 100 waste-water pressure pipes	DIN 8074/8075	DIN EN 13244 , ISIRI 14427	
PE 80/PE 100 drinking water pipes	DIN 8074/8075	DIN EN 12201 , ISIRI 14427	

Marking	Product will be marked on one side with characters at least 5mm high in a constrasting color
Identification marking	The following identification and traceability marks will be printed once every meter; • Manufacturers identification: Abrah Dashte markazi • Standard number: DIN 8074 (see note 1) • Material designation: PE100 or PE80 • SDR • Outside diameter: 250mm (example) • Manufacturing Code (contains Date) (see note 2) Note 1: The use of this mark is Abrah Dashte Markazi's claim that the product has been manufactured in accordance with DIN 8074 Note 2: The shift code denotes the extruder, shift week and year of manufacture plus the plant identification code. Each item being allocated a maximum of 2 digits. Where the codes numerical value is less than 10 a 0 is inserted. Or a simple date code may be used DD/MM/YY

Description	HDPE pipe Base on (DIN 8074 - DIN 8075) (63-250mm)		
SDR	All manufactured products will be in SDR Series base on DIN 8074-8075		
Color	Black		
Specification	DIN 8074:1999 Polyethylene (PE) - Pipes PE 80, PE 100 – Dimensions DIN 8075:1999 Polyethylene (PE) - Pipes PE 80, PE 100 – General Quality Requirements, Testing		
Weights	All weights (Equivalent pipe) are published in Abrah Dashte Markazi Product Guide.		
Dimensions	All dimensions are in accordance with DIN 8074.		
Lengths	Pipes ≤ 125 mm diameter will be supplied in lengths of 6 or 12m or coil lengths of 50m, 75m, 100, 150m , 200m Pipes ≥ 125mm diameter will be supplied in standard lengths of 6m, 12m (Other lengths maybe produced at customer's request).		

The following materials will be used in accordance With the manufacturer's technical specification: PE80 and PE100 Pressure pipe materials

Material

PE	Polyethylene
PE RC	Polyethylene, resistant to crack

Material Specifiction	Standards/guidelines	PE 80	PE 100 RC	PE 100 RC Black
Density, g/cm3	ISO 1183	0.945	0.948	0.949
Yield stress, MPa	DIN EN ISO 527		23	25
Elongation at yield, %	DIN EN ISO 527		10	
Elongation at break, %	DIN EN ISO 527		>1000	600
Tensile modulus of elasticity, MPa	DIN EN ISO 527		850	1100
Impact strength, kJ/m2	DIN EN ISO 179	22	25	16
Notched impact strength, kJ/m2	DIN EN ISO 179	no break	no break	no break
Ball indentation hardness, MPa	DIN EN ISO 2039-1	40	40	40
Shore hardness, D	ISO 868		62	60
Thermal conductivity, W/m · K	DIN 52612	0.38	0.38	0.38
Surface resistance, Ohm	DIN IEC 167	1 · 10		
Combustibility	DIN 4102	B2	В2	B2
Physiological acceptability	as per BfR	yes	yes	yes
Chemical resistance	according to DIN 8075 Supple- ment	fulfilled	fulfilled	fulfilled
Temperature range, °C		- 40 to + 80	- 40 to + 80	- 40 to + 80
MRS, MPa	ISO/TR 9082	8	10	10
OIT, min	EN 728	30	30	30
S4 Test (RCP) , bar	ISO DIS 13477		> 20	>10
Resistance to Slow Crack Growth , h	ISO 13479		>1000	>1000



About Us

Abrah Dashte Markazi is a exclusive producer of Polyethylene pipes in the Middle East, we are producer solid-wall HDPE PIPE with a Premier Quality.

Abrah Dashte Markazi Company for plastic pipes was formed in 2011 with the aim of developing a professional HDPE Pipes industry Since its foundation, Abrah Dashte Markazi has a steady growth with high quality standards to fulfill the requirements of its customers specially for HDPE Pipes

Abrah Dashte Markazi pipes are produced according to DIN,ISO,ASTM,BSI,ISIRI (Iranian standard) demand There is also the facility of manufacturing products with special specifications according to customer requirements

Abrah Dashte Markazi HDPE Pipes are well accepted any widely used in domestic water system, warming, cooling, and all types of industrial process pipe works, water distribution and water treatment as well as irrigation systems

Abrah Dashte Markazi Company using new technology to produce the best performance HDPE PIPES, HDPE PIPES for the toughest applications and offers.

Abrah Dashte Markazi Company to provide global quality standards provides such benefits to their clients who enjoy the distinctive quality and cost-optimized.

Our goal is to offer all customers the best quality and this is one of the pillars of development of Abrah Dashte Markazi Company

Abrah Dashte Markazi Company in 2011 in Iran Arak Khair Abad Industrial Park established and started its manufacturing activities

Applications for PE pipe include pressure and non-pressure pipelines for drinking water, irrigation, wastewater, electrical, industrial, mining and telecommunications industries.

Customer rights

Our Company by placing all of it ability to provide service and quality products to fulfill the basic rights of customer picks step in the way of development of the company and the development of the industry

Abrah Dashte Markazi Company is proud to promote health and quality of life and can be instrumental in optimizing the quality of life for people

Using engineered production methods

In recent years Abrah
Dashte Markazi company has gained remarkable achievements by using its experienced employees in product hdpe pipes that have engineered step by step process in each field of production to deliver high performance pipes for toughest applications

Customers feedback as a part of the prodution and Development Process

As part of process of development Abrah Dashte
Markazi always has been
open to the customer's
Feedback for rapidly moving
forward in increasing quality
of products and satisfaction
of it's own customer

Using Advanced machinery and material

Abrah Dashte Markazi Company using new technology of production lines and best material in the row from inside Middle east and iran and Basell ,Solvay to produce the best performance HDPE PIPES

The holder of the national standard

Abrah Dashte Markazi Has this honor and merit to be holder of national standard and always will be an effort to preserve this trust

member of Iranian Association of Polyethylene Pipe & Fittings Producers

Abrah Dashte Markazi has this proud and deserve to join Iranian Association of Polyethylene Pipe & Fittings Producers always will be an effort to preserve this trust

PE80 and PE100 materials use

Abrah Dashte Markazi company using a wide range of PE80 and PE100 material performance and application for the customer according to the offers on demand

Quality Management

Abrah Dashte Markazi's Quality management is certified in accordance Din EN ISO 9001- 2008



Treacebaility Code

All the HDPE PIPES has been manufacterd in Abrah Dashte Markazi Company have Treacebaility Code For Assureance of material used , data of producation and specifiction of MFR, Site, application, manufacturer of raw material



Applications

High Density Polyethylene (HDPE) Solid Wall Pipe has been used in Potable Water applications since the 60's,HDPE pipes have provided decades of exceptional performance in the US,Canada and Europe in potable and other applications due to its durability and resistance to earthquakes, tsunami, hurricane, corrosion,fatigue, zero leakage and lowest life cycle cost and has been gaining approval and growth in municipalities ever since. HDPE Pipe is approved in ASTM D3035 (All pipes produced under this specification may be used for the transport of water, industrial process liquids, effluents, slurries, municipal sewage), AWWA C901 and C906 (This standard describes minimum requirements for PE pressure pipe and tubing made from material having standard PE code designations PE 2606, PE 2706, PE 2708, PE 3608, PE 3708, PE 3710, PE 4608, PE 4708, and PE 4710 and intended for use in potable water, reclaimed water, and wastewater service.), NSF 14 and 61 (NSF International is an independent global organization that writes public health standards and protocols, and tests and certifies products for the water, food and consumer goods industries)

Features and benefits of HDPE PIPE

- HDPE pressure pipe can accept repetitive pressure surges that significantly exceed the static pressure rating of the pipe
- HDPE pipe is flexible and ductile, not rigid. It has outstanding resistance to fatigue HDPE pipe can be bent to a radius 25 times. This can eliminate many fittings required for directional changes in a piping system where fittings and thrust blocks or restraints are required with alternate materials. Unlike other plastic pipes, it is designed and pressure rated to handle the kind of occasional and recurring surge events that are common in water distribution systems.
- The combination of flexibility and leak free joints allow for unique and cost effective types of installation methods that the rigid PVC and Ductile Iron pipes can't use with bell and spigot connections..
- Polyethylene pipe installations are cost effective and have long term cost advantages
 Firstly, because its failure rate is low, the cost per mile for repair/replacement is also low due
 to its physical properties, HDPE is fusion-welded joints which ensure very low leakage rates
 and thus low water loss costs leak free joints and reduced maintenance costs.
- The polyethylene pipe industry estimates a service life for HDPE pipe to conservatively be 50-100 years. This relates to savings in replacement costs for next generations to come.
- HDPE pipe will not rust, corrode, tuberculate or support biological scale or growth, and has superb chemical resistance compared to traditional pipe materials
- Hazen Williams C Factor is 150 and doesn't change over time

ABRAH DASHTE MARKAZI Pipe Series (S) Outsid Nominal 25 20 16 12.5 10.5 10 8.3 6.3 5 4 3.2 2.5 2 Standard Dimension Ratio (SDR) ወ bore 51 41 33 26 22 21 17.6 17 13.6 11 9 7.4 6 5 diameter PE80 Material PN 3.2 **PN 4** PN 5 PN 6 **PN 8 PN 10** PN 12.5 **PN 16** PN 20 **PN 25** PE100 Material 0 PN 4 PN 5 PN 6 **PN 8 PN 10** PN 12.5 PN 16 PN 20 PN 25 (mm) (incl mass $\mathbf{e}_{_{\min }}$ in in kg/m 10 1/8 0,048 0,052 2,0 12 1/4 1,8 0,060 2,0 0,065 2,4 0,075 16 3/8 2,0 0,092 2,3 0,103 0,125 3,3 0,135 _ _ 3,0 0,182 20 1/2 2,0 0,118 2,3 0,134 3,0 0,164 3,4 4,1 0,209 _ 2.0 0,151 3.5 0.243 25 3/4 _ _ _ _ _ 2.3 0,173 3.0 0,202 4,2 0,281 5.1 0,323 32 2.0 2.4 0.235 0.282 3.6 0,331 0.390 0.458 6.5 0.525 2.0 0.198 0.198 3.0 4.4 5.4 1.8 0.229 0.251 2.3 0.299 0.360 0,434 4.5 0.514 5.5 0.607 8.1 0818 40 11/4 1,9 0.240 2.0 0.288 2.4 3.0 3.7 6.7 0.708 50 11/2 1,8 0,290 2.0 0.317 2,3 0,365 2.4 0,378 2,9 0.445 3,0 0.458 3,7 0,555 4,6 0,673 5,6 0,796 6,9 0.945 8,3 1,10 10.1 1,27 0.368 0,403 2,5 0,500 0,586 0,883 2,02 63 1,8 2.0 2.9 0,569 3.0 3,6 0.695 3,8 0.728 4,7 5,8 1.06 7.1 1,27 8.6 1,49 10,5 1.74 12.8 0,440 75 1,8 1,9 0,462 2,3 0,557 2,9 0,683 3,5 0,816 3,6 0,836 4,3 0,987 4,5 1,03 5,6 1,25 6,8 1,48 8,4 1,78 10,3 2,12 12,5 2,47 15,1 2,85 21/2 90 1,8 0,531 2,2 0,647 2,8 0,800 3,5 0,988 4,1 1,15 4,3 1,20 1,40 5,4 1,47 6,7 1,79 8,2 2,14 10,1 2,57 12,3 3,03 15,0 3,54 18,1 4,09 3 5,1 110 0,795 1,79 2,64 4,54 22,1 2,2 2,7 0,952 3,4 1,19 4,2 1,45 5,0 1,69 5,3 6,3 2,10 6,6 2,19 8,1 10,0 3,18 12,3 3,82 15,1 18,3 5,29 6,10 41/2 2,29 7,4 2,79 3,40 125 2,5 1,01 3,1 1,25 3,9 1,53 4,8 1,86 5,7 2,19 6,0 7,1 2,69 9,2 11,4 4,12 14,0 4,92 17,1 5,84 20,8 6,82 25,1 7,87 140 5 2,8 1,26 3,5 1,56 4,3 1,90 5,4 2,35 6,4 2,75 6,7 2,86 8,0 3,37 8,3 3,50 10,3 4,26 12,7 5,13 15,7 6,18 19,2 7,33 23,3 8,56 28,1 9,87 160 3,2 1,65 4,0 2,02 4,9 2,45 6.2 3,08 7,3 3,58 7,7 3,75 9,1 4,40 9,5 4,57 11,8 5,56 14,6 6,74 17,9 8,04 21,9 9,54 26,6 11,2 32,1 12,9 180 3,6 2,07 2,51 3,10 6,9 4,52 10,2 5,77 13,3 7,05 20,1 24,6 12,1 4,4 5,5 3,83 8,2 8,6 4,71 5,54 10,7 16,4 8,51 10,2 29,9 14,1 36,1 16,3 200 8 3,9 2,48 4,9 3,08 6,2 3,88 7,7 4.74 9,1 5,57 9,6 5,84 11,4 6,86 11,9 7,12 14,7 8,65 18,2 10,5 22,4 12,6 27,4 14,9 33,2 17,4 40,1 20,1 3.90 13.4 25.2 25,4 225 4.4 3.16 5.5 6.9 4,82 8,6 5.96 10.3 7.07 10.8 7.37 12,8 8.64 9,03 16.6 11,0 20,5 13.3 15,9 30.8 18.8 37,4 22.1 45.1 4.9 3.88 6.2 4.88 7.7 5.98 7.38 11.9 9,02 14.2 10.7 14.8 13.5 22.7 16.3 27.9 34.2 23.3 41.5 27.2 50.1 250 10 9.6 11.4 6.68 11.1 18.4 19.6 31.4 280 5.5 4.88 8.6 7,47 10.7 9.20 12.8 13.4 11,4 15.9 13.3 16.6 13.9 20.6 16,9 25.4 20.5 31.3 24.6 38.3 29.2 34.1 56,2 39,4 11 6.9 6,04 10.9 46,5 315 7,7 9,47 17,9 16,9 21,5 25,9 35,2 36,9 52,3 49,8 12 6,2 6,18 7,59 9,7 12,1 11,7 14,4 13,8 15,0 14,3 18,7 17,6 23,2 28,6 31,1 43,1 43.2 63,2 355 14 7,0 7,81 8,7 9,65 10,9 12,0 13,6 14,8 16,2 17,5 16,9 18,2 20,1 21,4 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 16 7,9 9,92 9,8 12,2 12,3 15,2 15,3 18,8 18,2 22,1 19,1 23,1 22,7 27,2 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 18 8,8 12,4 15,4 13,8 19,2 17,2 23,7 20,5 28,0 21,5 29,3 25,5 34,3 26,7 35,8 33,1 43,7 40,9 52,8 50,3 75,2 11,0 63,4 61,5 15,4 15,3 22,8 23,9 36,1 29,7 53,9 55,8 92,8 500 20 12,3 23,6 19,1 29,2 34,5 28,3 42,3 44,2 36,8 45,4 65,2 78,1 68,3



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