

Clean Pipe , Clean Water



Corporate Presentation

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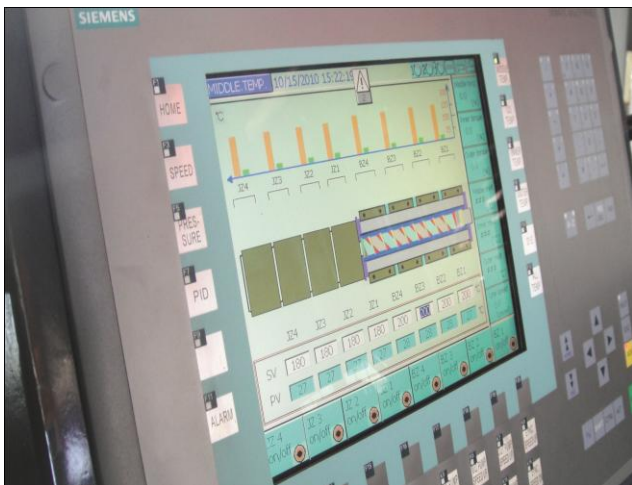


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Introducing RESA LOULEH PASARGAD



- Resa Louleh Pasargad Company was formed in February 2009 by a group of scientific and industrial geniuses with cooperation of Resplast Company of Netherlands. This company is manufacturer and designer of a new generation of multilayer jointly extruded PE pipes that are used in potable and sanitary water transfer and distribution pressurized irrigation and water transfer, agricultural industries gas and oil fluids transfer, hot water and industrial wastewater transfer, electric industries and tele- communication.





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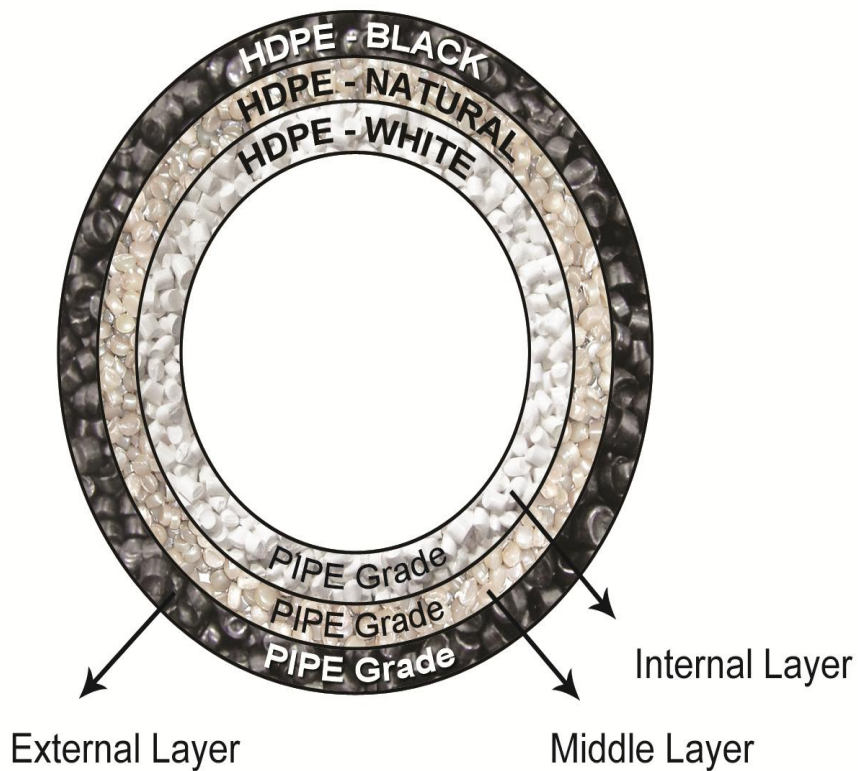
Main objects of company



- Rendering quality-centered products by using modern tools and technology and skilled staff.
- Innovation and invention in designing new manufacturing processes (extruder and die) in PE pipe industry
- Rendering **Clean pipes** with white internal layer (Food Grade) for transferring potable water
- Rendering **Smart pipes** able to track and retrieve full technical features (pipe identity card) in every time and place
- Rendering **ResPex pipes** with raised mechanical & chemical properties.



Layer Structure of our pipes (Jointly Extrusion)



Parameter	Old process	New process
Temperature	Because of screw and barrel's axial pumping, temperature in extruder's outlet area is increased and becomes uncontrollable	Because of eliminating screw and barrel's axial pumping, temperature in extruder's outlet area becomes adjustable and controllable
Thermal Degradation	Increase in temperature in pumping area causes thermal degradation of PE and decreases molecular mass of PE and generates free radical in PE Chain	Because of controllability of temperature in all areas of extruder, thermal degradation doesn't happen.
Pressure	Production of high pressure in melt pumping area because of role of screw and barrel's axial pumping	Adjustability of pressure in melt pumping area because of eliminating screw and barrel's axial pumping
Pressure alterations	At least %8 melt pressure alteration because of screw and barrel's axial pumping	Eliminating melt pressure alteration because of eliminating screw and barrel's axial pumping and melt pumping with uniform pressure into die

Parameter	Old process	New process
Thickness alterations in length of pipe	At least %7 thickness alteration in length of pipe because of melt pressure alteration	Eliminating thickness alteration in length of pipe because of keeping melt pressure constant
Kg/hr	At least %5 alteration in extruder outlet because of motor slip and gearbox mechanical losses	Eliminating alteration in extruder outlet because of using direct drive system without gearbox with zero slip
Kg /m	At least %5 alteration in product because of using open loop control system	Eliminating alteration because of using servo system and closed loop control
Energy consumption	High energy consumption per one kilogram of produced pipe because of indirect energy transfer into screw and barrel	At least %20 decrease in energy consumption per one kilogram of produced pipe because of direct energy transfer into screw and barrel

New Technology in Die head designing

Main characteristic of Die head:

Type: Spiral

Process : 3 layered jointly extrusion

Melt pressure range : 200 to 400 bar

Output range : 500 to 1000mm

IPC (Internal Pipe Cooling)

IDC (Internal Die Cooling)



Research and Development



Resa Louleh Pasargad company has established R&D Group with the following objects in order to satisfy the customer, to produce quality products, to render after sale services and to keep relation with consumers:

Getting information about the last world technology.

Promoting productivity, knowledge and skill of human resources.

Keeping in touch with consumers for finding the problems and solving them.

Holding seminars and training workshops all over the country.

Designing and producing new products proportional with customer needs.





Main products:

1- CLEAN pipe

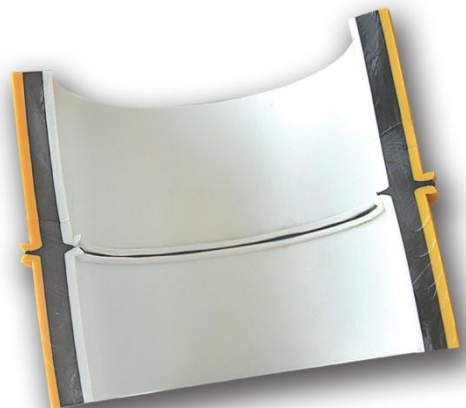
- Category : 3 Layer Jointly Extruded PE pipe
-
- Structure : External Layer : HDPE100 black
- Middle Layer : HDPE100 natural
- Internal Layer : HDPE100 white
-
- Ability : Able to transfer 100% potable & sanitary water with all the benefits of multilayer jointly extruded PE pipe.





2- ResPex pipe

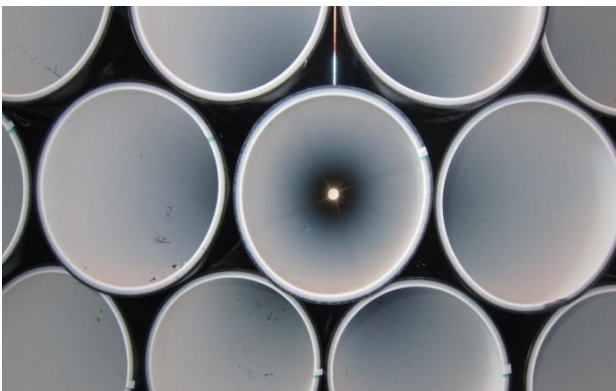
- Category : 3 Layer Jointly Extruded PE pipe
- Structure : External Layer : HDPEXB100 light orange
Middle Layer : HDPE100 black
Internal Layer : HDPEXB100 white
- Ability : Able to use in hazardous environment with high safety factor. Anti scratch & Anti corrosion , Trenchless installation , Very high temperature & pressure operating points (2 times greater than PE pipes)





3-SMART pipe

- Category : 3 Layer Jointly Extruded PE pipe
- Structure : External Layer : HDPE100 black
Middle Layer : HDPE100 natural
Internal Layer : HDPE100 white
- Ability : Able to track and retrieve full dimensional ,technical and product specification of the pipe (pipe Identity Card) in any time & place with all the benefits of multilayer jointly extruded PE pipe.



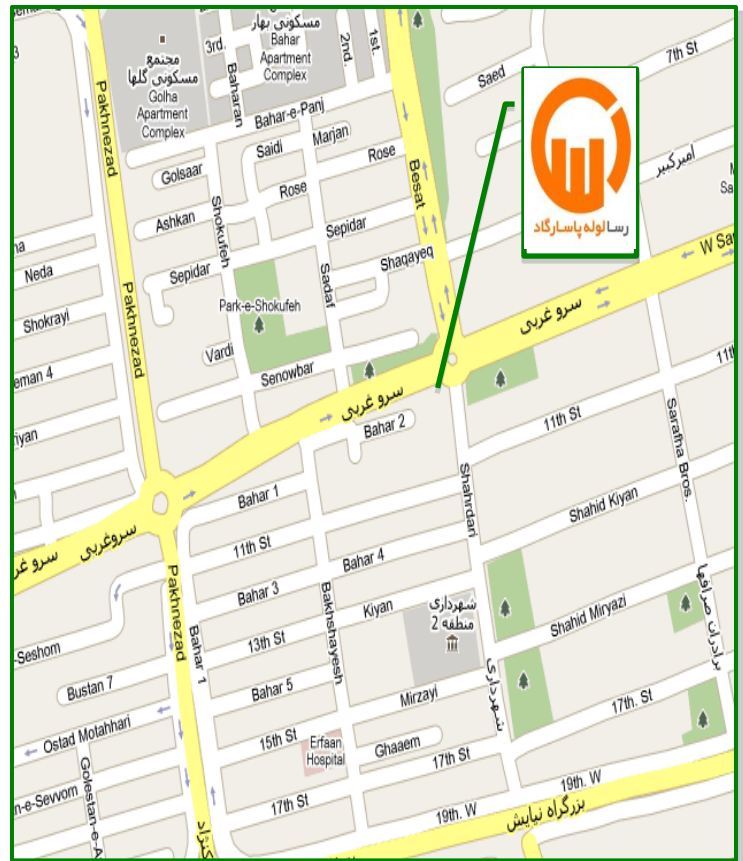


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