

## Irrigation Pe Pipe

PE (polyethylene) irrigation pipes are widely used in the field of water supply pipe manufacturing due to their high strength, corrosion resistance, and non-toxic characteristics. Because [PE irrigation pipe](#)/hose does not rust, it is an ideal pipe material to replace ordinary iron water supply pipes.



### ❖ Specifications of Irrigation PE Pipe

PE PIPE										
Diameter (mm)	16	20	25	32	40	50	63	75	90	
Thickness (mm)	1.0	2.0	2.0	2.5	3.0	4.0	5.0	5.0	5.0	
The wall thickness can be produced as per clients' requirements										



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## ❖ Features of Irrigation PE Pipe

**Reliable connection:** the polyethylene pipeline system is connected by electrothermal fusion, PP compression fitting is higher than the strength of the pipeline body.

**Good low-temperature impact resistance:** The low-temperature embrittlement temperature of polyethylene is extremely low, and it can be safely used in the temperature range of  $-60-60^{\circ}\text{C}$ . During winter construction, due to the good impact resistance of the material, brittle cracking of the pipe will not occur.

**Good resistance to stress cracking:** HDPE has low notch sensitivity, high shear strength and excellent scratch resistance, and environmental stress cracking resistance is also very outstanding.

**Good chemical resistance:** HDPE pipelines can resist the corrosion of various chemical media, and the chemical substances present in the soil will not cause any degradation of the pipeline. Polyethylene is an electrical insulator, so it does not rot, rust, or electrochemically corrode; it also does not promote the growth of algae, bacteria, or fungi.

**Aging resistance and long service life:** Polyethylene pipes containing 2-2.5% uniformly distributed carbon black can be stored outdoors or used for 50 years without being damaged by ultraviolet radiation.

**Good wear resistance:** The comparison test of the wear resistance of HDPE pipe and steel pipe shows that the wear resistance of HDPE pipe is 4 times that of steel pipe. In the field of mud transportation, compared with steel pipes, HDPE pipes have better wear resistance, which means that HDPE pipes have a longer service life and better economy.

**Good flexibility:** The flexibility of the HDPE pipeline makes it easy to bend. In engineering, it can bypass the obstacles by changing the direction of the pipeline. In many occasions, the flexibility of the pipeline can reduce the amount of pipe fittings and reduce the installation cost.

**Small flow resistance:** HDPE pipeline has a smooth inner surface, and its Manning coefficient is 0.009. The smooth performance and non-adhesive properties ensure that the HDPE pipeline has a higher transport capacity than traditional pipes, and also reduces the pressure loss of the pipeline and the energy consumption of water delivery.



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**Convenient handling:** HDPE pipes are lighter than concrete pipes, galvanized pipes and steel pipes. It is easy to handle and install. Lower manpower and equipment requirements mean that the installation cost of the project is greatly reduced.

**A variety of new construction methods:** HDPE pipelines have a variety of construction techniques. In addition to the traditional excavation methods, a variety of new non-excavation techniques such as pipe jacking, directional drilling, liner, Split pipes and other methods are used for construction. This is the only choice for places where excavation is not allowed, so HDPE pipeline applications are more extensive.