

SOLICOR

Plastic corrugated pipes from HDPE (protection of aquifer pipes)

The corrugated plastic pipes with trade name SOLICOR, are produced by high density polyethylene (HDPE) and their role is to provide mechanical protection, from stresses and abuses, to the inner aquifer pipe. At the same time, they are offered as a guide for the replacement of the inner (aquifer) pipe, in case of problem, without causing damage and leftovers. These pipes provide thermal insulation, waterproofing and also soundproofing although it is not required, because the flow in the plastic pipes is noiseless.

They are available in three colors (blue, red and black), in coils of 50m.
In case of ultraviolet radiation, black colored corrugated pipes with carbon black must be used for UV protection.



CODE

BLUE	RED	BLACK	DIMENSION	PRICE €/m	PACKING
1320161140	1320161130	1320161120	Ø16(11)*	0.187	50m/100m
1320181340	1320181330	1320181320	Ø18(13.5)*	0.208	50m/100m
1320201640	1320201630	1320201620	Ø20(16)*	0.238	50m/100m
1320231840	1320231830	1320231820	Ø23(18)	0.259	50m/100m
1320252040	1320252030	1320252020	Ø25(20)	0.271	50m
1320282340	1320282330	1320282320	Ø28(23)	0.300	50m
1320302540	1320302530	1320302520	Ø30(25)	0.310	50m
1320362940	1320362930	1320362920	Ø36(29)	0.518	50m
1320403440	1320403430	1320403420	Ø40(34)	0.726	50m
1320504540	1320504530	1320504520	Ø50(45)	0.828	50m

* Production upon request

AQUAFLEX

Plastic pipes for transportation of cold water under pressure

The plastic pipes for transporting cold water (up to 50°C) under pressure, are produced by high density polyethylene of second generation PE80 and are distributed in the market with the trade name AQUAFLEX.

They are produced according to the german standards DIN 8074/8075, are available in blue or black color and they belong to MRS8 category (The minimum required strength, that a pipe bears when operating at nominal pressure PN for 50 years at 20°C).

The black colored pipes offer increased protection to UV radiation, because they have UV stabilizers.

AQUAFLEX pipes are suitable for a wide variety of chemical transport, like detergents, ethyl alcohol, glycol, hydrochloric acid (a.s.36%), sulfuric acid (a.s.40%), wine, ammonia etc.

In case of underground installation, we propose the use of black pipe inside a corrugated black pipe, for double protection, mechanical and against UV radiation.

The inner smooth surface that they have, prevents the accretion of salts.

Thus the cross section of pipe remains unchanged,

unlike the metal tubes, where the salt deposits may reduce the internal diameter to a large extent and create conditions for turbulent flow.

PE pipes have small curve radius (closed curves up to 20 times the diameter of the pipe) and due to their flexibility, a significant number of fittings is avoided, so they offer economy to the installation. They are transported easily, due to their packing and they have easy stock.

Also, they withstand soil movements and chemical corrosion. The specific category of the raw material (PE 80) is proposed for pipes with diameter up to Ø32, since for larger diameters and for the same pressures, the third generation polyethylene (PE 100) saves wall thickness and thus, raw material.

So, the plastic pipes AQUAFLEX (transfer of cold water up to 50°C) under pressure, in larger pipe dimensions are produced by high density polyethylene of third generation PE100.

They are available in black color, but they can be produced also in blue color upon request. They belong to MRS 10 category and are produced according to DIN 8074/8075 and EN 12201-2.

MATERIAL PROPERTIES

PROPERTIES	TEST SPECIFICATIONS	VALUES OF PE 80 (MRS 8)	VALUES OF PE 100(MRS 10)
Density of the raw material	ASTM D792	0,949 gr/cm ³	0,960 gr/cm ³
Material flow (at 5kg)	ISO 1133	0,85 gr/10min	0,45 gr/10min
Tensile strength	DIN 53455	28 Mpa	38 Mpa
Measure of elasticity	ISO 527	650 Mpa	1400 Mpa
Vicat point	DIN 53460	121°C	127°C
Thermal conductivity	DIN 52612	0,38 W/m x K	0,38 W/m x K
Linear coefficient of expansion	ASTM D696	1,3 x 10 ⁻⁴ K ⁻¹	1,3 x 10 ⁻⁴ K ⁻¹
Curve radius	-	20 x D	20 x D