



INDUSTRIAL BLANSOL SA is one of the leading companies in Europe in the production of accessories and plastic pipes (cross-linked and multilayer polyethylene pipes) and brass fittings for plumbing.

BLANSOL's activities in the industry of brass fittings began in 1955 and its operations in the field of plastics began in the early 1960s.

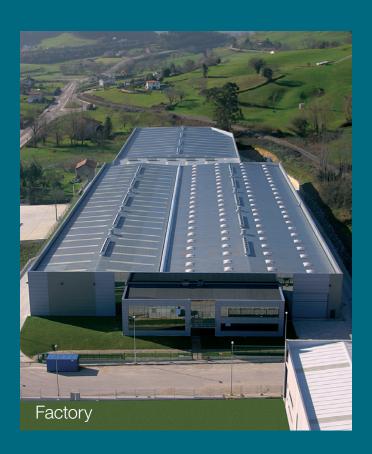
BLANSOL has a **great business tradition** that understands customer needs. The company is sensitive to the issues faced by the customers, and shares its dreams and projects with the customers.

The two production facilities have the most advanced technology, enabling them to be the leading company in their sector in Southern Europe and to compete fairly with their European competitors.

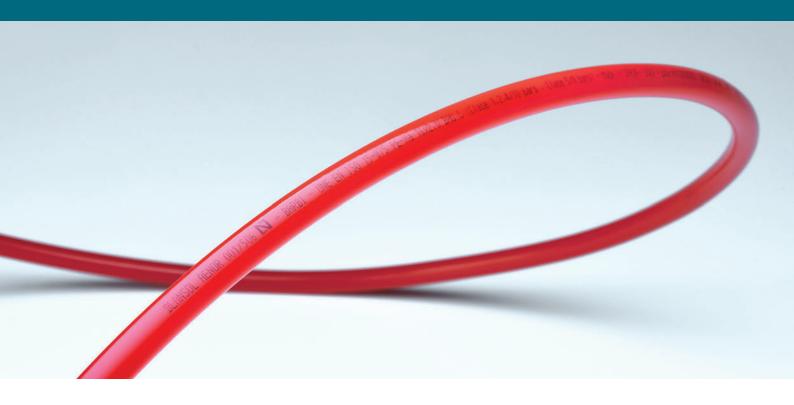
35,000 square-meter pipe production facility is one of **the most modern** factories in the industry in Europe, with an annual production capacity of **80 million meters** with 13 extrusion lines.

Operating in more than 50 countries BLANSOL exports 75% of its production.

Its products are certified from organizations such as **AENOR, CSTB, KIWA, and DVGW.**











BARBI PEX-a PIPE (OXYGEN IMPERMEABLE, EVOH)

Cross-linked and oxygen impermeable PEX-a (peroxide method) pipes are produced according to EN 1264-4 standard.

EVOH is a thin layer of copolymer ethyl-vinyl alcohol that prevents permeability. It prevents oxygen from diffusing into the water in the pipe, thus preventing corrosion of metallic parts in the installation; the bacterial film and the possibility of clogging due to it are eliminated prolonging the life of the installation.

DISTINCTIVE FEATURES

BARBI PEX-a EVOH pipes combine the advantages of PEX-a and EVOH oxygen impermeability properties (excellent high pressure and temperature resistance, very high flexibility).

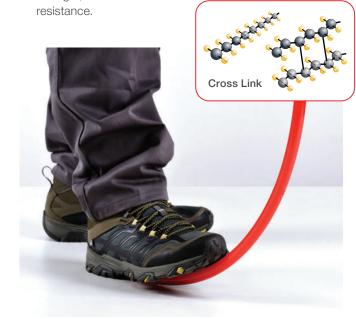
- Oxygen impermeable (EVOH) pipes have the same specifications as PEX pipes in terms of temperature and pressure resistance and warranty period.
- In EVOH oxygen impermeable pipes, the same fittings used for PEX pipes are used.
- The thermal memory characteristic of EVOH pipes is the same as PEX pipes.



- High Pressure Resistance: BARBI pipes are 35%
 more resistant to pressure than pipes produced by other
 production methods, thanks to the three-dimension
 provided by the difference in the production method to
 the cross-links.
- Flexibility: BARBI pipes show more flexibility than PEX pipes cross-linked by other methods. It can be easily cold-bent without special tools, saving connections and installation time.
- High Temperature Resistance: BARBI pipes can withstand continuous temperatures up to 95 °C and peak temperatures up to 110 °C.
- **Resistance to Frost:** BARBI pipes do not burst when the water inside them freezes. The pipe expands easily thanks to its flexibility.



- Oxygen impermeable (EVOH) pipes can be used for both heating and drinking water as they comply with UNE-EN ISO 15875 (as they are resistant to temperatures of 95 °C and even 110 °C for a short time).
- BARBI cross-linked polyethylene pipes are produced with Monosil technology, which is also used in the production of optical cables. This technology provides 35% higher pressure resistance in the pipes compared to other production methods. Therefore, the bonds are stronger, which raises the





- Corrosion Resistance: BARBI pipes cannot affect most chemicals (acids, bases, antifreeze, etc.) and the pipes are resistant to all kinds of corrosion.
- Higher Flow: Due to their smooth surface, BARBI pipes show less pressure loss than metal and higher flow is obtained with the same inner diameter.
- Absence of Scale and Other Material Deposits:
 Thanks to their extremely smooth surface, the scaling observed on metal pipes is not observed here, the initial flow values are maintained forever.
- **No Electrical Conductivity:** BARBI pipes do not form any galvanic corrosion..





- They Do Not Transmit Sound: Thanks to their polyethylene construction and flexibility, they do not make noise (up to 2.5 m/sg) even at high water flow rates compared to metal pipes.
- Thermal Memory: BARBI pipes regain their original shape when hot air is applied. This allows assembly errors to be easily corrected and repairs to be made more easily.
- Narrow Bending Radius: The bending radius is 10 times its outer diameter in manual operation and 5 times when BARBI protection pipe is used.







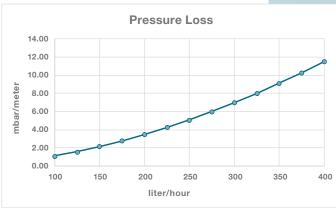
Technical Specifications

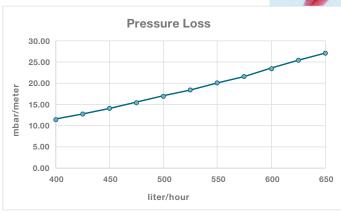
Specification	Value
Linear Expansion	1.4 x 10 ⁻⁴ K ⁻¹
Thermal conductivity	0.38 W/mK
Maximum operating temperature	95 °C
Maximum operating temperature (peak)	110 °C
Maximum operating pressure	10 bar
Roughness (max)	0.007 mm
Density	0.945 g/cm ²

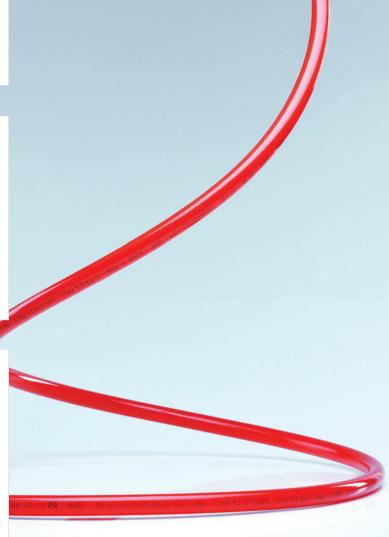
Operating Conditions

Temperature (°C)	Duration of Service (Years)	Operating Pressure (Bar)	Safety Coefficient
20	50	18.75	1.5
40	50	15.75	1.5
60	50	12.00	1.5
80	25	10.00	2.0
95	25	8.00	2.0











RECOMMENDATIONS

- The pipe should be stored in its original packaging. They should be kept away from direct sunlight.
- Avoid contact with hard and sharp-edged materials that may damage the product during transportation and assembly.
- The pipes should be cut with appropriate cutters and it has to be ensured that the cutting area is free of burrs.
- Direct flame should never be used to bend the pipes.
- Plastic clip material should be used to fix the pipe to the styrofoam. Using metal materials (such as wire) may damage the product.
- After the installation is finished, it is mandatory to perform a pressure test as specified in the UNE-ENV 12108 norm.

QUALITY CONTROL

All BARBI pipes are continuously tested to ensure quality assurance. Industrial Blansol has a laboratory equipped with the latest technology to perform all necessary tests on pipes in quality control devices.

BARBI PEX-a EVOH pipes are produced according to EN 15875 standard.

They are certified by AENOR (Spanish Standard Organization).





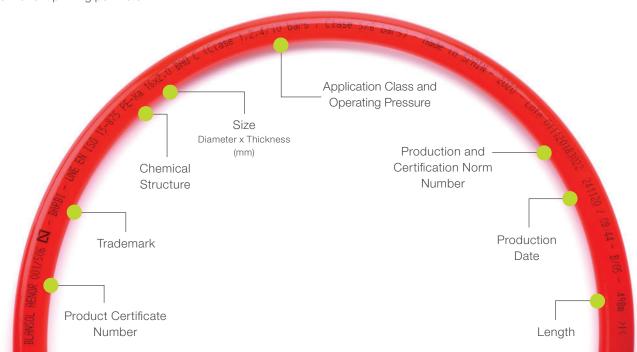
ALTERNATIVE AREAS OF USE

The main area of use of BARBI PEX-a EVOH pipes is floor heating applications. However, they can also be used in the following areas.

- Hot and cold water installation
- Radiator heating installation
- Air conditioning/air conditioner systems

MARKING

All pipes have the following information written with permanent printing per meter.







www.blansol.es

Blansol BARBI PEX-a

Floor Heating System Pipes, over 67 years with **Alarko Carrier** experience and guarantee in Turkiye!

Manufacturer reserves the right to change any product specifications without notice

ALARKO

(Carrier)

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