Pipe made of cross-linked polyethylene PEX-A with an anti-oxygen barrier EVOH 16 * 2.0 for underfloor heating

ZQPEXA1620R200

zencQ

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PRODUCT DESCRIPTION

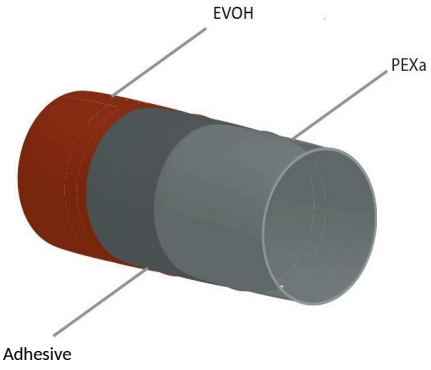
The pipe is used in systems for drinking and drinking purposes, hot water supply, water heating, systems of water-heated floors and walls, soil heating, as well as technological pipelines transporting liquids that are not aggressive to pipe materials.

The main area of application is underfloor and wall heating systems.

PEX-A cross-linked polyethylene pipes can be used for 1, 2, 4, 5, CW - operation classes.

The main layer of pipes is made of PEX-A cross-linked polyethylene. The outer layer of the pipe, which prevents oxygen diffusion, is made of EVOH (ethylene vinyl glycol, a formal copolymer of ethylene and vinyl).

Pipes are supplied in coils of 200 meters.



TECHNICAL PARAMETERS	
External diameter	16 mm
Inner diameter	12 mm
Wall thickness	2 mm
Volume of liquid	0,113 l/m
Maximum short-term operating temperature of the medium	90 °C
Maximum pressure at temperature (95°C)	10 bar
Tensile strength at 20°C	50 bar
Pressure characteristic	SDR8 / S3,5
Weight	90 g/m
Coil length	200 m
Minimum bend radius	35 mm
Equivalent uniform-grain roughness coefficient	0,007 mm
Wall thermal conductivity	0,38 W/m °K
Pipe service life	50 years

zencQ - Φ16X2.0 - PE-Xa EVOH - Oxygen Barrier - SDR8/S3.5 - Class 1-2-4/10bar - Class 5/8bar - Tmax 90°C - EN ISO 15875 - GOST 32415-2013 - Line XXX - DD/MM/YYYY - HH:MM:SS - XXXm

INSTALLATION REQUIREMENTS

1. Installation of pipes must be carried out at an ambient temperature of at least 5°C with a tool specially designed for this.
2. Do not use flattened or kinked pipe. In the event of a “kink”, the damaged section of the pipe must be removed. It is allowed to warm the broken area with a building hair dryer until it restores its original shape (shape memory effect). However, in this case, the design pressure of the working medium must be reduced by 25%.
3. Coils of pipes stored or transported at temperatures below 0°C must be kept for 24 hours at a temperature of at least 10°C before rolling.
4. Loose pipe ends must be plugged to prevent dirt and debris from entering the pipe.
5. When bending a pipe with a radius close to the limit (5D out), it is recommended to preheat the pipe to a temperature of 130 ° C with a building hair dryer.
6. In order to avoid straightening of the bent section of the pipe during heating, in the places where the pipe turns, it should be fastened with clamps or brackets in increments of 10 cm.
7. Underfloor heating piping should be grouted or covered with a coating only after a hydraulic leak test has been carried out. The PEX-a pipe must be under pressure of 0.3 MPa during pouring. The minimum height of pouring the solution above the surface of the pipe must be at least 3 cm.
8. Mechanical damage to the EVOH layer increases the oxygen permeability of the pipeline.
9. The pipe must be protected from direct sunlight.

REQUIREMENTS FOR OPERATION

PEX-a / EVOH pipes are not allowed for use:
- when the operating temperature of the transported liquid is over 90 ° C;
- at a working pressure exceeding that specified in the table of technical characteristics;
- in premises of category “G” for fire hazard;
- in rooms with sources of thermal radiation, the surface temperature of which exceeds 150 ° C;
- in central heating systems with elevator units;
- for expansion, safety, overflow and signal pipelines.

MANUFACTURER

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