

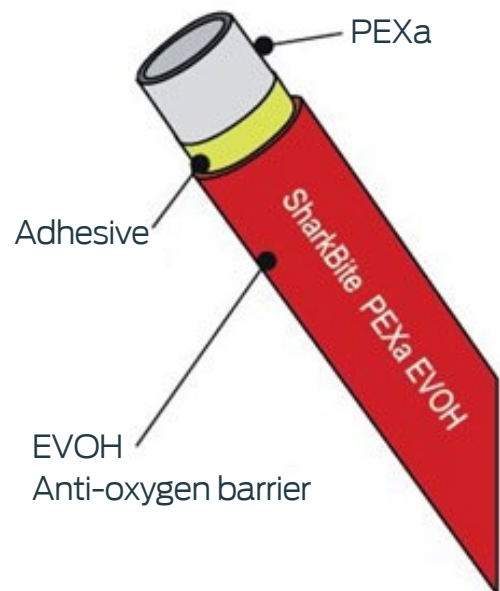
SharkBite® PEXa EVOH

Piping made of cross-linked polyethylene for hot and cold water supply, underfloor heating and air conditioning. Manufactured according to ISO 15875, AS 2492 and ASTM F876.

The raw material of PEX is HDPE (high density polyethylene) and contains bonds in the polymer structure that completely change its characteristics, changing the thermoplastic to a thermoset.

The cross-linking process of PEXa (carried out during extrusion by the peroxide method, in our case, by Infrared System I.R.). The cross-linking, greater than 70%, is carried out at a temperature higher than the melting point of HDPE polyethylene. The material is extruded and then immediately maintained at high temperatures and/or pressures. During this process, the peroxide decomposes into free radicals and reacts with the polymer, creating chains that are connected to each other in a three-dimensional network by chemical bonds. This process provides a higher level of mechanical and thermal resistance.

The thin oxygen diffusion barrier layer (EVOH - Ethylene Vinyl Alcohol), restricts the passage of oxygen, protecting the metallic elements of the installation, maintaining the same properties as the PEXa pipe.



Benefits & Advantages

- Suitable for potable water.
- Flexible and easy to install.
- Corrosion free.
- Resistant to chemicals.
- High resistance to low temperatures.
- Low weight.
- Abrasion resistant.
- Low roughness coefficient
- .Excellent thermal memory.
- Low thermal conductivity.
- Deposit free.
- Very high resistance to oxygen diffusion.



001/6649
ISO15875

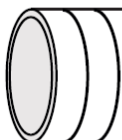
PEXa

EVOH

Reference	Seccion	Colour	Lenght (m)	Applications																																																
S81618EVR100	16x1.8	Red	100	<ul style="list-style-type: none"> • Potable water. • Sanitary hot water. • Heating radiators. • Underfloor heating and air conditioning. • Industrial applications. • Food industry. • Chemical industry. • Pharmaceutical industry. • Petrochemical industry. 																																																
S81618EVR120	16x1.8	Red	120																																																	
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S820S5EVR120	20x2.0	Red	120																																																	
S820S5EVR200	20x2.0	Red	200																																																	
S825S5EVR100	25x2.3	Red	100																																																	
S832S5EVR50	32x2.9	Red	50																																																	
S816S4EVR4	16x2.0	Red	4 (148)																																																	
S820S5EVR4	20x2.0	Red	4 (120)																																																	
S825S5EVR4	25x2.3	Red	4 (68)																																																	
S832S5EVR4	32x2.9	Red	4 (44)																																																	

Parameters	16x1.8	16x2.0	17x2.0	20x1.9	20x2.0	25x2.3	32x2.9
External diameter (mm)	16	16	17	20	20	25	32
Pipe thickness (mm)	1.8	2.0	2.0	1.9	2.0	2.3	2.9
Internal diameter (mm)	12.4	12.0	13.0	16.2	16.0	20.4	26.2
Outer diameter tolerance (mm)	+ 0.3	+ 0.3	+ 0.3	+ 0.3	+ 0.3	+ 0.3	+ 0.3
Linear expansion (mm/m.K)	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Thermal conductivity (W/m.K)	0.400	0.400	0.400	0.400	0.400	0.400	0.400
Roughness (mm)	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Maximum temperature (°C)	95	95	95	95	95	95	95
Minimum temperature (°C)	-40	-40	-40	-40	-40	-40	-40
Maximum pressure 95°C (Bar)	8	8	8	8	8	8	8
Oxygen diffusion (ml/l.d)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Weight of 1 m pipe (kg/m)	0.086	0.090	0.100	0.126	0.120	0.177	0.274
Internal volume 1 m pipe (l/m)	0.117	0.113	0.133	0.194	0.201	0.315	0.531
Min. cold bending radius 23 (mm)	80	80	85	100	100	125	160

Pipeline Marking



SharkBite PEXa EVOH - Ø 16 x 2.0 - PE Xa - C - Oxygen Barrier - Class 1-2-4/10 bar - 5/8 bar - UNE EN ISO 15875 - Made in Spain - Linea X - Lo XXXXddmmaa / hh:mm - T/OP - XXX m