

SharkBite®

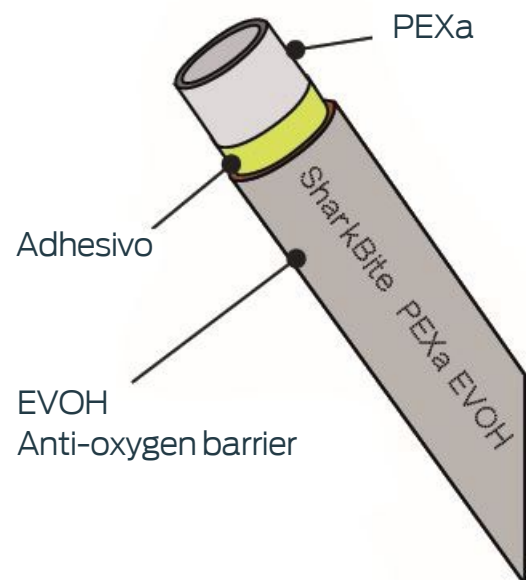
PEXa EVOH SERIES 3.2

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

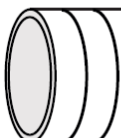
EVOH SERIES 3.2

Reference	Seccion	Colour	Lenght (m)	Aplicaciones
S816S32EVS100	16x2.2	Silver	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.
S816S32EVS120	16x2.2	Silver	120	
S816S32EVS200	16x2.2	Silver	200	
S816S32EVS240	16x2.2	Silver	240	
S816S32EVS500	16x2.2	Silver	500	
S820S32EVS100	20x2.8	Silver	100	
S820S32EVS120	20x2.8	Silver	120	
S820S32EVS200	20x2.8	Silver	200	
S825S32EVS100	25x3.5	Silver	100	
S832S32EVS50	32x4.4	Silver	50	

Compatibility	NEXUS	PRESS
Ø 16x2.2	X	X
Ø 20x2.8	X	X
Ø 25x3.5	X	X
Ø 32x4.4	X	X

Parameters	16x2.2	20x2.8	25x3.5	32x4.4
External diameter (mm)	16	20	25	32
Pipe thickness (mm)	2.2	2.8	3.5	4.4
Internal diameter (mm)	11.6	14.4	18.0	23.2
Outer diameter tolerance (mm)	+ 0.3	+ 0.3	+ 0.3	+ 0.3
Linear expansion (mm/m.K)	0.020	0.020	0.020	0.020
Thermal conductivity (W/m.K)	0.400	0.400	0.400	0.400
Roughness (mm)	0.007	0.007	0.007	0.007
Maximum temperature (°C)	95	95	95	95
Minimum temperature (°C)	-40	-40	-40	-40
Maximum pressure 95°C (Bar)	10	10	10	10
Oxygen diffusion (ml/l.d)	<0.3	<0.3	<0.3	<0.3
Weight of 1 m pipe (kg/m)	0.086	0.090	0.100	0.126
Internal volume 1 m pipe (l/m)	0.117	0.113	0.133	0.194
Min. cold bending radius 23 (mm)	80	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