

SharkBite®

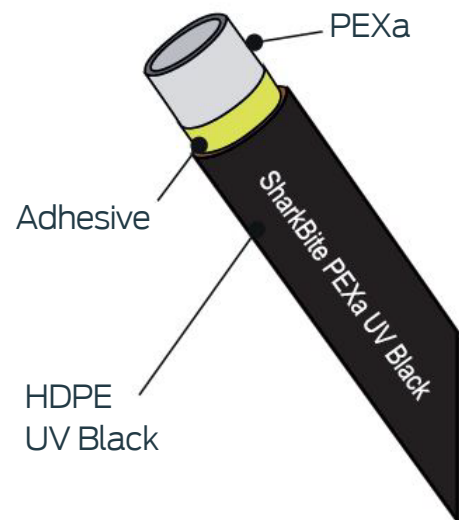
PEXa UV BLACK

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.

Due to their chemical composition, polyethylenes are subject to degradation as a result of exposure to ultraviolet light. Carbon black 3% is used as a UV stabiliser.



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.
- UV resistant



001/6597
ISO15875

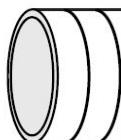
PEXa UV BLACK

Reference	Seccion	Colour	Lenght (m)	Applications
S816S4UV100	16x2.0	Black	100	<ul style="list-style-type: none"> • Drinking water. • Sanitary hot water. • Industrial applications. • Food industry. • Chemical industry. • Pharmaceutical industry. • Petrochemical industry. • Geothermal energy.
S816S4UV200	16x2.0	Black	200	
S817S5UV100	17x2.0	Black	100	
S817S5UV200	17x2.0	Black	200	
S817S5UV400	17x2.0	Black	400	
S820S5UV100	20x2.0	Black	100	
S820S5UV200	20x2.0	Black	200	
S825S5UV100	25x2.3	Black	100	
S832S5UV50	32x2.9	Black	50	
S816S4UV4	16x2.0	Black	4(148)	
S820S5UV4	20x2.0	Black	4(112)	
S825S5UV4	25x2.3	Black	4(68)	
S832S5UV4	32x2.9	Black	4(44)	

Compatibility	NEXUS	PRESS	SPEEDFIT
Ø 16x2.0	✓	✓	✓
Ø 17x2.0	X	X	X
Ø 20x2.0	✓	✓	✓
Ø 25x2.3	✓	✓	X
Ø 32x2.9	✓	✓	X

Parameters	16x2.0	17x2.0	20x2.0	35x2.3	32x2.9
External diameter (mm)	16	17	20	25	32
Pipe thickness (mm)	2.0	2.0	2.0	2.3	2.9
Internal diameter (mm)	12.0	13.0	16.0	20.4	26.2
Outer diameter tolerance (mm)	+ 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
Thermal conductivity (W/m.K)	0.400	0.400	0.400	0.400	0.400
Roughness (mm)	0.007	0.007	0.007	0.007	0.007
Maximum temperature (°C)	95	95	95	95	95
Minimum temperature (°C)	-40	-40	-40	-40	-40
Maximum pressure 95°C (Bar)	8	8	8	8	8
Weight of 1 m pipe (kg/m)	0.090	0.100	0.120	0.177	0.274
Internal volume 1 m pipe (l/m)	0.113	0.133	0.201	0.315	0.531
Min. cold bending radius 23 (mm)	80	85	100	125	160

Pipeline Marking



SharkBite Multilayer - PERT/AL/PERT - ø 16 x 2.0 - EN ISO 21003 - Class 1-2-4-5/10bar - Tmax = 95°C/10bar - Made in Spain - Linea X - Lo XXXXXXXddmmaa / hh:mm - T/OP - XXX m