

SharkBite® MULTILAYER

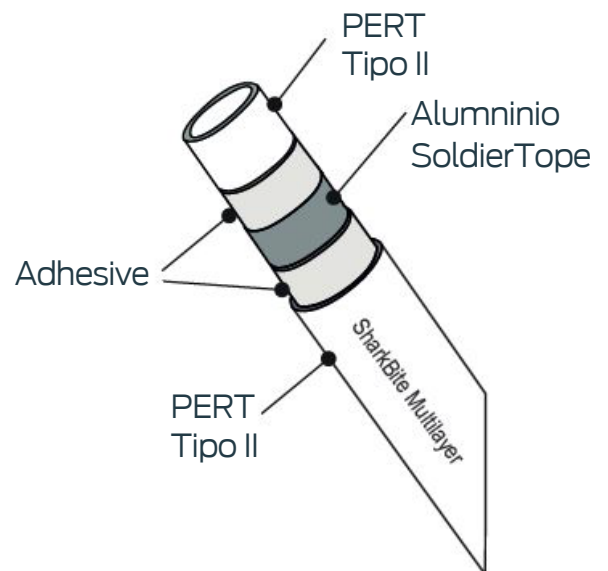
Multilayer pipe made of temperature resistant polyethylene with aluminium butt welded "head to head", under the ISO 21003 standard.

PERT type II is a material used for the manufacture of multilayer pipes in plumbing and heating applications, due to its flexibility. It can be bent and is easier to change direction in tight spaces compared to PVC, CPVC, PP, copper or steel pipes without the need for elbows, reducing costs, potential leakage points and pressure losses generated by connections.

The combination of PERT type II and aluminium allows to obtain multilayer pipes, which provide exceptional mechanical properties, offering a single product with the advantages of both materials.

The performance of the pipe depends on: alloy type, thickness, layer position, technology used in forming and welding of the aluminium, adherence to PERT.

The aluminium is formed around the PERT layer and the two edges, which extend the length of the pipe, are welded by "head to head" welding, providing 100% oxygen impermeability.



Benefits & Advantages

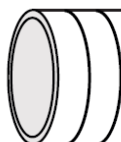
- Suitable for potable water.
- Flexible and easy to install.
- Corrosion free.
- Resistant to chemicals.
- High resistance to high temperatures.
- Low weight.
- Abrasion resistant.
- Low roughness coefficient.
- Low thermal conductivity.
- Deposit free.
- 100 % impermeable to oxygen.

MULTILAYER

Reference	Seccion	Colour	Lenght (m)	Applications																																				
S8L16100	16x2.0	White	100	<ul style="list-style-type: none"> • Potable water. • Sanitary hot water. • Radiator heating. • Underfloor and radiant air-conditioning. • Industrial applications. • Food sector. • Chemical industry. • Pharmaceutical industry. • Petrochemical industry. 																																				
S8L16200	16x2.0	White	200																																					
S8L16500	16x2.0	White	500																																					
S8L20100	20x2.0	White	100																																					
S8L2550	25x2.5	White	50																																					
S8L2650	26x3.0	White	50																																					
S8L3250	32x3.0	White	50																																					
S8L164	16x2.0	White	4(160)																																					
S8L204	20x2.0	White	4(120)																																					
S8L254	25x2.5	White	4(80)																																					
S8L264	26x3.0	White	4(80)	<table border="1"> <thead> <tr> <th>Compatibility</th> <th>NEXUS</th> <th>PRESS</th> <th>SPEEDFIT</th> </tr> </thead> <tbody> <tr> <td>Ø 16x2.0</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Ø 20x2.0</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Ø 25x2.5</td> <td>✓</td> <td>✓</td> <td>X</td> </tr> <tr> <td>Ø 26x3.0</td> <td>X</td> <td>✓</td> <td>X</td> </tr> <tr> <td>Ø 32x3.0</td> <td>✓</td> <td>✓</td> <td>X</td> </tr> <tr> <td>Ø 40x3.5</td> <td>X</td> <td>✓</td> <td>X</td> </tr> <tr> <td>Ø 50x4.0</td> <td>X</td> <td>✓</td> <td>X</td> </tr> <tr> <td>Ø 63x4.5</td> <td>X</td> <td>✓</td> <td>X</td> </tr> </tbody> </table>	Compatibility	NEXUS	PRESS	SPEEDFIT	Ø 16x2.0	✓	✓	✓	Ø 20x2.0	✓	✓	✓	Ø 25x2.5	✓	✓	X	Ø 26x3.0	X	✓	X	Ø 32x3.0	✓	✓	X	Ø 40x3.5	X	✓	X	Ø 50x4.0	X	✓	X	Ø 63x4.5	X	✓	X
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S8L324	32x3.0	White	4(80)																																					
S8L405	40x3.5	White	5																																					
S8L505	50x4.0	White	5																																					
S8L635	63x4.5	White	5																																					

Parameters	16x2.0	20x2.0	25x2.5	26x3.0	32x3.0	40x3.5	50x4.0	63x4.5
External diameter (mm)	16	20	25	26	32	40	50	63
Pipe thickness (mm)	2.0	2.8	2.5	3.0	3.0	3.5	4.0	4.5
Internal diameter (mm)	12.0	16.0	20.0	20.0	26.0	33.0	42.0	54.0
Thickness of aluminium layer (mm)	0.2	0.2	0.3	0.3	0.3	0.5	0.6	0.7
Outer-inner layer	PERT	PERT	PERT	PERT	PERT	PEXa	PEXa	PEXa
Outside diameter tolerance (mm)	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Inside diameter tolerance (mm)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.6	-0.8
Linear expansion (mm/m.K)	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Thermal conductivity (W/m.K)	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400
Roughness (mm)	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Oxygen diffusion (mL/l.d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum temperature (°C)	95	95	95	95	95	95	95	95
Maximum pressure 95°C (Bar)	10	10	10	10	10	10	10	10
Density (gr/cm3)	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Weight of 1 m pipe (kg/m)	0.105	0.129	0.254	0.261	0.390	0.480	0.700	1.01
Internal volume 1 m pipe (l/m)	0.113	0.201	0.314	0.314	0.531	0.860	1.390	2.29
Bending radius without internal spring (mm)	80	100	125	130	160			
Bending radius with internal spring (mm)	64	80	100	104	120			

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 XXXXXXXXddmmaa / hh:mm - T/OP - XXX m