



CONNECTIONS, SYSTEMS & REGULATION

POLYBUTYLENE PIPE (PB)

POLYSTH



Description

Polybutylene piping systems have been used successfully in Europe for piping installations for almost 50 years. The underground and districts heating installation are still work yet without problems.

PolySTH is an original piping system. This system uses a technology with more than 40 years of experience and has a complete range of polybutylene pipes with diameters from 15 mm to 28 mm.

This system is fast and safe to install and requires fewer joints than rigid piping systems. The joints don't need dissolvents, welding or flames.

PolySTH is more resistant to impacts and freeze punctures than rigid piping systems.



* Accessories manufactured and certified in accordance with the UNE-EN ISO 15876 standard.

Advantages

- Corrosion and freezing temperatures resistance.
- Pressure variation resistance (Water Hammer).
- Low internal roughness, so the pressure drop is lower.
- Lightweight and manageable.
- Noise reduction.

Characteristics

- Fittings available from 15 mm to 28 mm.
- With anti-oxygen barrier to stop the ingress of any oxygen in to the system.
- Ready to use straight out of the coil
- Ideal for use in: Hot and cold sanitary water supplies, central heating to radiators and underfloor central heating installations.
- It is a flexible alternative to copper tube and it is suitable for both hard and soft water areas.
- PolySTH system is not suitable for the transportation of gases



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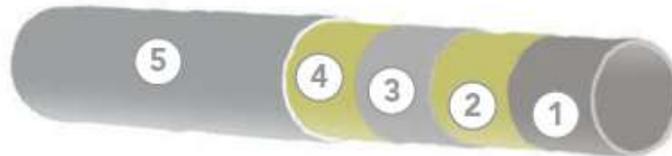
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Materials

1. PB
2. Adhesive
3. Anti-oxygen barrier (BAO)
4. Adhesive
5. PB

POLYPLUMB:
5 LAYERS



Dimensions

Pipe diameter (mm)	15	22	28
Internal diameter (mm)	11,6	18	22,8
Wall thickness (mm)	1,7	2,0	2,6
Weigh (g/m)	70	130	220
Water volume (l/m)	0,110	0,257	0,422

Conditions of service

Temperature	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°C	114°C*
Pressure (bar)	12,0	11,5	11,0	10,5	9,0	8,0	7,0	6,0	3,0

*System malfunction temperature.

Application class	Temperature of design T_D [°C]	Time to T_D^a [Years]	T_{max} [°C]	Time to T_{max} [h]	T_{mal} [°C]	Time to T_{mal} [h]	Typical application
1 ^a	60	49	80	1	95	100	Hot water supply (60 °C).
2 ^a	70	49	80	1	95	100	Hot water supply (70 °C).
4 ^b	20	2,5	70	2,5	100	100	Underfloor central heating and low temperature heating radiators.
	40	20					
	60	25					
5 ^b	20	14	90	1	100	100	High temperature heating radiators.
	60	25					
	80	10					

^a Each country can choose between class 1 or class 2 according to its national regulations.

^b When more than one design temperature appears for any class, the times must be added (for example, the 50 years temperature profile for class 5 is 14 years at 20°C, followed by 25 years at 60 °C, 10 years at 80 °C, 1 year at 90 °C and 100 h at 100 °C).



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PB pipe in rolls. With anti-oxygen barrier



Code	Ø	Roll (m)
F64001	15	10
F64002	15	25
F64003	15	50
F64004	15	100
F64005	22	10
F64006	22	25
F64007	22	50
F64008	28	25
F64009	28	50



Code	Ø	Strip	Longitude of the Strip (m)
F64010	15	10	2
F64011	15	10	6
F64012	22	10	2
F64013	22	10	6
F64014	28	10	6

Clips



Código	Ø
F64015	15
F64016	22
F64017	28