

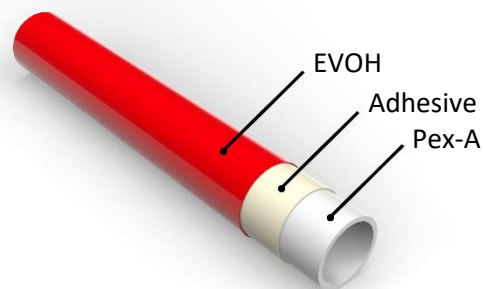
# Pex-A with Oxygen Barrier

## Dimensions

Dimension (mm)	Diameter (mm)	Tolerance(mm)
16 X 2.0	16,00 – 16,30	2,00 – 2,30
17 X 2.0	17,00 – 17,30	2,00 – 2,30
18X 2.0	18,00 – 18,30	2,00 – 2,30
20 X 2.0	20,00 – 20,30	2,00 – 2,30

Other dimensions and colors available on request

Available in 3 or 5 layers



## Classification according to service conditions

Application Class	Application	Type of temperature	Temperature (°C)	Time (years)
1	Hot water (60°C)	Design temperature	60	49
		Maximum design temperature	80	1
		Malfunction temperature	95	0.0114
2	Hot water (70°C)	Design temperature	70	49
		Maximum design temperature	80	1
		Malfunction temperature	95	0.0114
4	Underfloor heating and low temperature radiators	Design temperature	20	2.5
		Design temperature	4	20
		Design temperature	60	25
		Maximum design temperature	70	25
		Malfunction temperature	100	0.0114
5	High temperature radiators	Design temperature	20	14
		Design temperature	60	25
		Design temperature	80	10
		Maximum design temperature	90	1
		Malfunction temperature	100	0.0114

## Certifications\*

AENOR (Spain), SKZ (Germany), DIN CERTCO (Germany), IIP (Italy), KOMO (Netherlands), AFNOR (France), QB (France), WRAS (UK), SINTEF (Scandinavia)

\* Standardized certifications according to UNE-EN ISO 15875

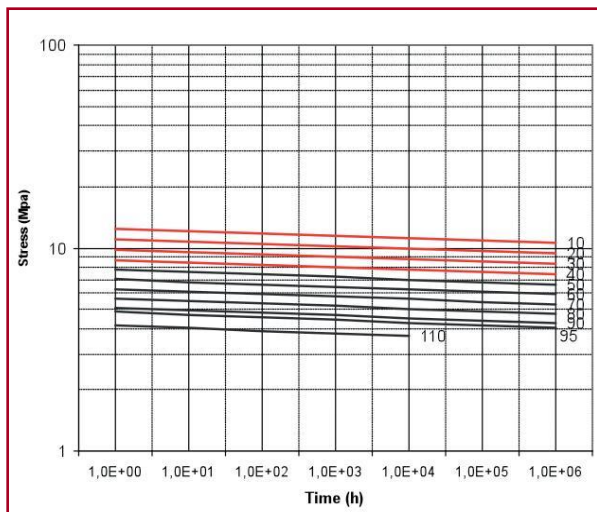
## Physical characteristics

Characteristic	Value	Unit
Density	351	Kg/m <sup>3</sup>
Crosslinking degree:	>70	%
Rugosity	0.007	mm
Weight	96	g/m
Volume	0.13	l/m

## Thermal characteristics

Characteristic	Value	Unit
Maximum service temperature	95	°C
Maximum temperature	110	°C
Heat reversal 120°C ; 1 hour	<2.5	%
Specific heat 23°C	2.3	KJ/kg·K
Thermal conductivity	0.35 - 0.38	W/ m·K
Temperature VICAT	130 - 132	°C
O2 permeability	0.08	G/M <sup>3</sup> .d
Coefficient of linear extension	0.026	mm/m°K
Coefficient of linear dilation	1.410 <sup>-4</sup>	K-1

## Regression Curve Pex-A



## Mechanical characteristics

Characteristic	Value	Unit
Breaking strength	>22	N/mm <sup>2</sup>
Elongation at break	>400	%
Modulus of elasticity (20°C)	>800	N/mm <sup>2</sup>
Resistance to internal pressure s = 4.8 Mpa, 95°C	>1	Hours
Resistance to internal pressure s = 4,7 Mpa, 95°C	>22	Hours
Resistance to internal pressure s = 4,6 Mpa, 95°C	>165	Hours
Resistance to internal pressure s = 4,4 Mpa, 95°C	>1000	Hours
Resistance to internal pressure s = 2,5 Mpa, 100°C	>1	Years

## Applications

Underfloor heating and heating

Cooling systems

Hot and cold water distribution

Industrial facilities

Snow and ice removal systems on surfaces

Surface heating / cooling (floor, wall and ceiling)