

Product specifications

APE MULTILAYER (PE-xB/Al/PE-xB) pipe, UNI EN ISO 21003 and DIN 4726 compliant. This pipe consists of a double inner and outer layer of crosslinked polyethylene PE-xB (silane method - B) bound by a special adhesive to a longitudinally welded (TIG butt welded) intermediate aluminium alloy layer. This structure is highly shapeable, provides a complete barrier to oxygen, ensures total hygiene and high corrosion resistance since fluids come in contact only with the inner PE-xB layer.

Maximum operating temperature: 95°C. Maximum peak temperature: 110°C. Max pressure at 95°C: 10 bar.

Thermal conductivity at 20°C: 0.43 W/mK. Oxygen permeability: 0 mg/l. Roughness: 7 µm.

DVGW and KIWA Certified.



Dimensional characteristics

Codes	UOM code	9MN02142 0---	9MN02162 0---	9MN03182 0---	9MN03202 0---	9MN04263 0---	9MN45323 0---
Outer Diameter	mm	14	16	18	20	26	32
Inner diameter	mm	10	12	14	16	20	26
Weight	g/m	89	94	129	143	265	343
Thickness of aluminium	mm	0.2	0.2	0.3	0.3	0.4	0.45
Total thickness	mm	2	2	2	2	3	3
Roll length	m	100F	100F, 200F, 500R	100F, 200F	100F, 300R	50F	50F

Technical Specifications

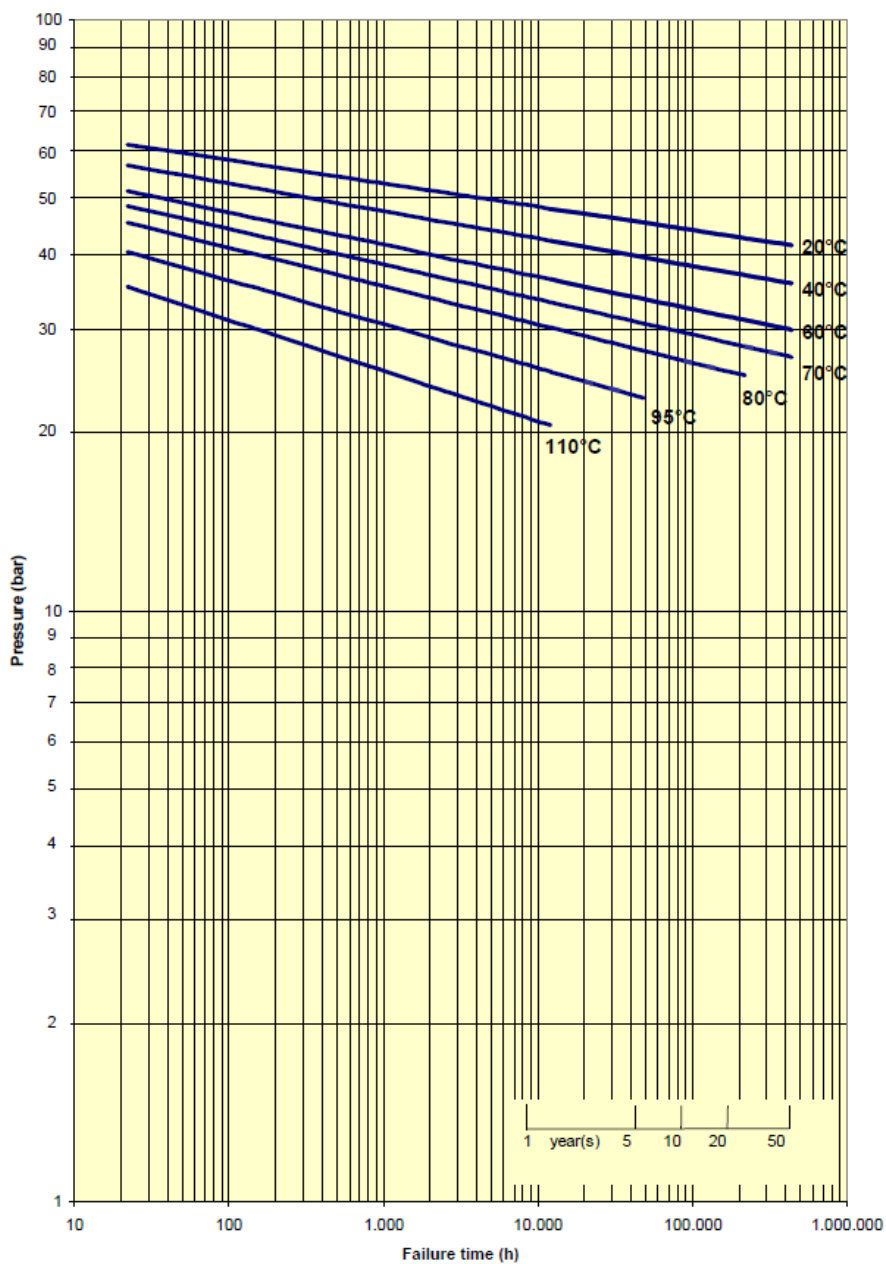
Volume of water	l/m	0.079	0.113	0.154	0.201	0.314	0.531
Internal roughness	µm	7					
Thermal conductivity at 20°C	W/mK	0.43					
Coefficient of expansion	mm/m °C	0.026					
Degree of crosslinking	%	> 65%					
Oxygen permeability	mg/l	0					
Colour		White					

Technical specifications

Type		PE-xB/Al/PE-xB Multilayer pipe
Field of application		Plumbing in civil, industrial and commercial applications.
Fluid		Potable water, technical water, and water glycol (*).
Continuous use temperature	°C	95
Max peak temperature	°C	110
Minimum operating temperature (*)	°C	0
Maximum operating pressure at 95°C	bar	10
Maximum operating pressure at 20°C	bar	30
Duration at 95°C and 10 bar	years	50
Storage		Avoid prolonged exposure to direct sunlight
Minimum bend radius		5 times the diameter

(*) In the case of water glycol, in order to define the minimum operating temperature, it is necessary to know the elements of the mixture and the various concentrations.

Regression curves



Compliance

DVGW Certificate - DW-8231CN0175

KIWA certificate - K66359101

KOMO certificate - K66915101

UNI EN ISO 21003

DIN 4726

Ministerial Decree No. 174/2004