

TUBO - EPEXA



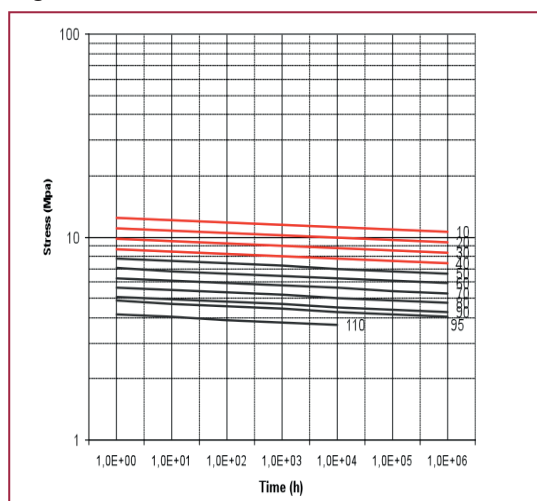
Physical characteristics

Characteristic	Value	Unit
Density	951	Kg/m ³
Crosslinking degree	>70	% weight
Roughness	0.0 07	mm
Weight	96	g/m
Volume	0.1 3	l/m

Thermal characteristics

Characteristic	Value	Unit
Maximum service temperature	95	°C
Maximum high temperature	110	°C
Heat reversion 120°C heat; 1 hour	<2.5	%
Specific heat at 23°C	2.3	KJ/k g·K
Thermal conductivity	0.35 – 0.38	W/ m·K
VICAT temperature	130 - 132	°C
Permeability O ₂	0.08	g/m ³ d
Lineal extension coefficient	0.026	mm/m·K

Regression curves PEX-a



Mechanical characteristics

Characteristic	Value	Unit
Tensile resistance	>22	N/mm ²
Elongation at break	>400	%
Modulus of elasticity at 20°C	>800	N/mm ²
Internal pressure resistance s=4.8 Mpa, 95°C	>1	Hour s
Internal pressure resistance s=4.7 Mpa, 95°C	>22	Hour s
Internal pressure resistance s=4.6 Mpa, 95°C	>165	Hour s
Internal pressure resistance s=4.4 Mpa, 95°C	>1000	Hour s
Internal pressure resistance s=2.5 Mpa, 110°C	>1	Year

Classification of service conditions

Application class	Main function	Class of temperature	Temperature (°C)	Time (years)
1	Hot water (60°)	Temperature of design	60	49
		Temperature max.	80	1
		Temperature malfunction	95	0.0114
2	Hot water (70°)	Temperature of design	70	49
		Temperature max.	80	1
		Temperature malfunction	95	0.0114
4	Underfloor heating and low temperature radiators	Temperature of design	20	2.5
		Temperature of design	40	20
		Temperature of design	60	25
		Temperature max.	70	2.5
		Temperature malfunction	100	0.0114
5	High temperature radiators	Temperature of design	20	14
		Temperature of design	60	25
		Temperature of design	80	10
		Temperature max.	90	1
		Temperature malfunction	100	0.0114