

PERT-AI-PERT

Product Characteristics

Physical and mechanical characteristics

Characteristic	Value	Unit
Maximum service Temperature	95	°C
Maximum high Temperature	110	
O ₂ permeability	<0.0010	g/m ³ d
Lineal expansion coefficient	0.025	mm/m °K
Thermal conductivity at 60°C	0.43	W/m°K
Adhesion strength	20	MPa
Elongation at break	400	%
Roughness	0.007	mm
Burst pressure	80	bar
Oxidation Induction time (OIT)	> 20	min
Density	> 930	Kg/m ³
Heat stability (110°C-8760h)	Without rupture	bar

Pressure resistance

Characteristic	Value	Unit
20°C-1h	40	bar
95°C-22h	25	bar
95°C-165h	23	bar
95°C-1000h	20	bar

Design pressure according ISO 21003

Characteristic	Value	Unit
Cold water (20°C)	10	Bar
Class 1. Hot water supply at 60°C	6	Bar
Class 2. Hot water supply at 70 °C	6	Bar
Class 4. Underfloor heating	6	Bar
Class 5. High-temperature radiators	6	Bar