

Technical Data Sheet

UNAVELD PERT-AL-PERT

Multilayer Pipes

Multilayer PE-RT/AL/PE-RT pipes produced according to: DIN 4726/29, UNI EN ISO 21003-2, CL.4 - 10 bar/+40°C

Max. working temperature: +100°C

Available in: 16-32 mm

The mentioned values are these which have been measured in our laboratory, under typical conditions. They can be modified without prior notice. You are kindly requested to assert their validity before any special use.

Multilayer PERT-AL-PERT pipes

Ideal for Plumbing & Heating Systems

1. PERT inner layer without colouring substances
2. Adhesive Layer
3. Aluminum layered barrier
4. Adhesive Layer
5. PERT outer layer



Benefits

- **Excellent flexibility** due to the new generation of polyethylene PERT (Dowlex 2388)
- **Waterproof aluminum layered barrier**
- **Oxygen-impermeable**
- **Prevents corrosion** of individual parts/components
- Impermeability to oxygen diffusion
- **Shape Persistence:** It keeps the formed shape, without recoiling
- Reducing thermal expansion caused by temperature changes
- No sediments accumulation
- Thermal expansion similar to metal pipes
- Material appropriate for drinking water
- Easy, safe and quick installation
- **Lightweight and easy to use: 3 times lighter than copper**
- Fewer connection accessories
- Excellent durability in time

External Diameter	Thickness	Aluminum Thickness	Meters/coil
PERT-AL-PERT Pipe, Coil, in White Colour*			
Φ16	2 mm	0,20 mm	100 m
Φ18	2 mm	0,25 mm	100 m
Φ20	2 mm	0,25 mm	100 m
Φ20	2,5 mm	0,25 mm	100 m
Φ26	3 mm	0,30 mm	50 m
Φ32	3 mm	0,50 mm	50 m
PERT-AL-PERT Pipe, Coil, in Black Colour*			
Φ16	2 mm	0,25 mm	100 m

*Multilayered pipes 16x2, 18x2 and 20x2 also delivered in bobbin of 500m.

Multilayer PERT-AL-PERT pipes are also available in: **ISOSOL Pre-Insulated pipes with Insulation of ISOPIPE TC (+110°C) with SOLAR COVERING in White Colour.**

For more information please refer to ISOPIPE TC Technical Data Sheet (TDS) and SOLAR Covering Technical Data Sheet (TDS).



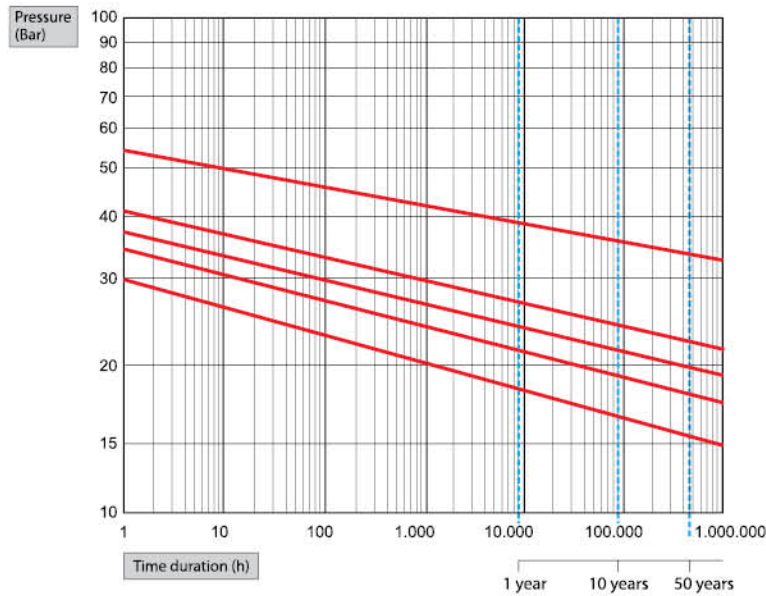
The technical information on Multilayer PERT-AL-PERT pipes continues on the next page. →

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Diagram of Resistance to Pressure and Temperature



Technical Characteristics	
Operating Temperatures Maximum / Momentarily	+95° C / +100° C
Operating Pressure	10 bar at +95° C 20 bar at +5° C
Lifetime	50 years
Thermal Conductivity Coefficient	0.43 W/mK
Linear Expansion Coefficient	0.026 mm/mK
Internal Harshness	0.007mm
Oxygen Permeability	10,00%/ mg (According to DIN 4726)
Adhesion Properties between Layers	Adhesion >80 N/cm ²
Radius (R)	Nominal Diameter DN x 6

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