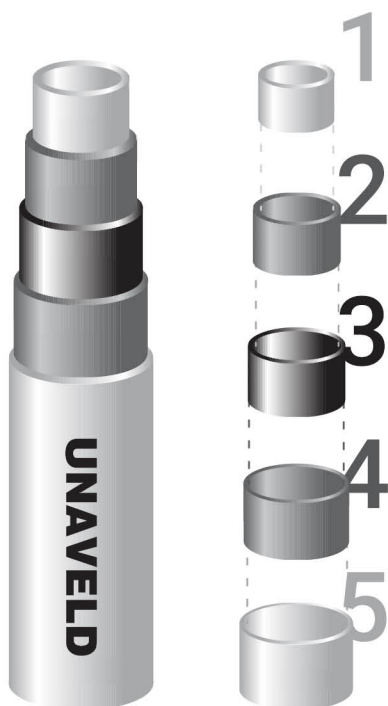


# UNAVELD PERT-AL-PERT

## 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
<b>PERT-AL-PERT Pipe, Coil, in White Colour*</b>			
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
<b>PERT-AL-PERT Pipe, Coil, in Black Colour*</b>			
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:

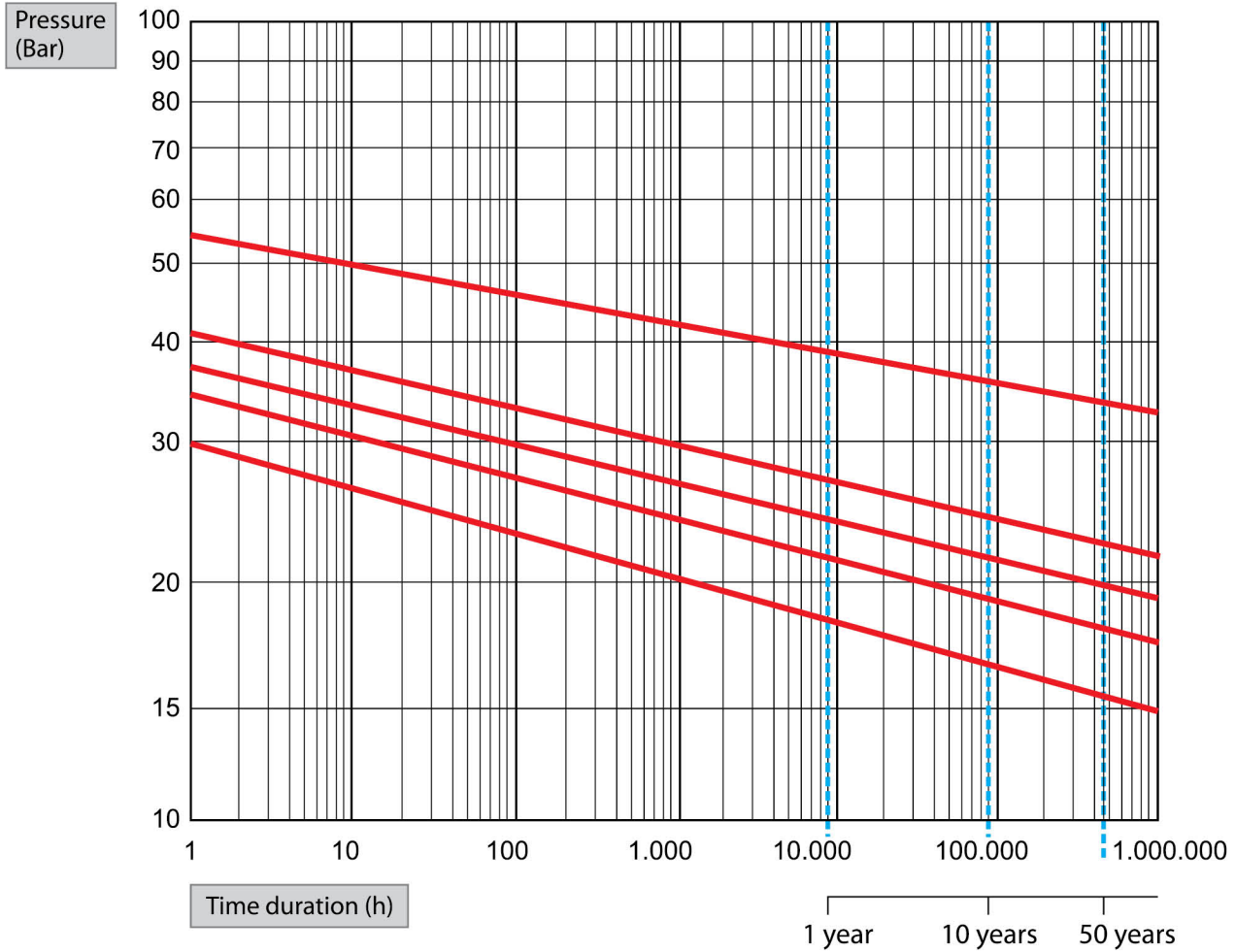
**ISOSOL Pre-Insulated pipes with Insulation of ISOPIPE TC (+110°C) with SOLAR COVERING in White Colour.**

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

### Applications



## Diagram of Resistance to Pressure and Temperature



## Technical Characteristics

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

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**ISOPIPE® S.A.**

[www.isopipe.eu](http://www.isopipe.eu)

**GREECE**  
**Head Office:**  
 Nafpliou & Daskalogianni  
 144 52 Metamorfofi Attikis  
 T.: +30 210 28 28 603  
 F.: +30 210 28 19 210  
 E.: export@isopipe.gr

**Plant:**  
 73rd km Nat. Road Athens - Lamia  
 341 00 Ritsona Halkida  
 T.: +30 22620 89 800  
 F.: +30 22620 72 006  
 E.: export@isopipe.gr

**SPAIN**  
**Barcelona:**  
 C/ Costa l Deu 71 - 79 (esq. C/ Tamarit)  
 08205, Sabadell, Barcelona, España

**Madrid:**  
 Calle Pedro Duque, 5,  
 Poligono Industrial GITESA,  
 28.814- Daganzo de Arriba (Madrid),  
 Madrid Community

T.: +34 93 879 1195  
 F.: +34 93 879 1313  
 E.: pedidos@isopipe.es

**UNITED KINGDOM**  
**Head Office:**  
 178 Seven Sisters Road  
 London N7 7PX  
 United Kingdom

**Warehouse:**  
 Airfield Industrial Estate Warboys,  
 Huntingdon  
 Cambridgeshire PE28 2SH  
 United Kingdom

T.: +30 210 28 28 603  
 E.: orders@isopipe.eu