

Multilayer pipes EVOH-PERT

Material

- PERT - raised temperature polyethylene - DOWLEX
- bonding layer - adhesive
- EVOH - ethylene-vinyl alcohol copolymer - anti-diffusion layer
- bonding layer - adhesive
- PERT - raised temperature polyethylene - DOWLEX

Area of application

- central heating (radiator connections)
- surface heating (underfloor and wall heating installations)
- ice water

Construction

The pipe is made of flexible and durable raised temperature polyethylene material (PERT). The pipe is additionally protected by the EVOH anti-diffusion barrier, which prevents oxygen from entering the interior of the installation, protecting the other components, such as radiators and valves, against corrosion.

Constant operating parameters

- radiator connections: temp. 90°C under pressure of 6 bar
- cooling installation based on ice water e.g. 5/12°C under pressure of 10 bar

Dimension range

12x2, 14x2, 16x2, 17x2, 18x2, 20x2

Technical properties

- **durability** - estimated lifespan of min. 50 years
- **energy - saving** due to low pressure losses and low thermal conductivity
- **flexibility with no shape remembrance** - multilayer pipes are more flexible than any other known pipes and can be bended without any supports. Bending radius is on the level of 4-5 x Dn
- **low absolute roughness coefficient** (0.0005mm) - low hydraulic losses, no possibility of pipe incrustation
- **total oxygen impenetrability** thanks to EVOH layer
- **hygienic** - PERT plastics are non toxic, neutral in relation to water and can be recycled
- **resistant** to most chemical compounds, completely resistant to corrosion, highly resistant to abrasion
- **vibration suppression ability** - resistant to hydraulic impact
- **low weight**

