

## Polyethylene PERT II - EVOH - Oxygen Barrier - 3 layer

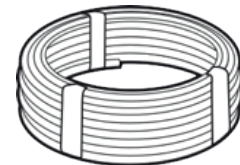


### MATERIAL SPECIFICATION

PERT Type II - Dowlex 2388  
EVOH - Ethylene Vinyl Alcohol

### BRAND

EvoPERT EVOH  
SharkBite PERT EVOH  
OEM brand



### DIMENSIONS & LENGHT mm

|          |                                    |
|----------|------------------------------------|
| ø 16x2,0 | 50 - 100 - 120 - 200 - 240 - 500 m |
| ø 20x2,0 | 50 - 100 - 120 - 200 - 240 - 500 m |
| ø 25x2,3 | 25 - 50 - 100 m                    |
| ø 32x2,9 | 25 - 50 - 100 m                    |

|          |                                    |
|----------|------------------------------------|
| ø 16x2,2 | 50 - 100 - 120 - 200 - 240 - 500 m |
| ø 20x2,8 | 50 - 100 - 120 - 200 - 240 - 500 m |
| ø 25x3,5 | 25 - 50 - 100 m                    |
| ø 32x4,4 | 25 - 50 - 100 m                    |

### COLORS

Natural White Red Blue Black Green Purple Silver  
  
 All colors are co-extrusion - Inner layer natural - External layer of color

### FIELDS OF APPLICATION



Drinking Water  
Supply



Sanitary Hot  
Water



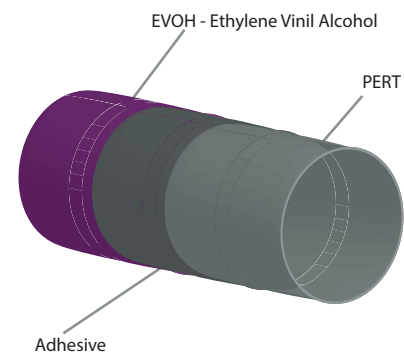
Cold Water  
Supply



Underfloor Heating  
& Cooling

|                          | ø 16x2,0 | ø 20x2,0 | ø 25x2,3 | ø 32x2,9 |
|--------------------------|----------|----------|----------|----------|
| Internal diámetro ( mm ) | 12,0     | 16,0     | 20,4     | 26,2     |
| Volume of liquid ( l/m ) | 0,113    | 0,201    | 0,327    | 0,539    |
| Max. temperature ( °C )  | 70       | 70       | 70       | 70       |
| Max. pressure ( 95° C )  | 6 bar    | 4 bar    | 4 bar    | 4 bar    |
| Min. bending radius/hot  | 35 mm    | 45 mm    | 55 mm    | 100 mm   |
| Min. bending radius/cold | 35 mm    | 90 mm    | 125 mm   | 165 mm   |
| Burst pression at +20° C | 23 bar   | 20 bar   | 16 bar   | 22 bar   |

|                           | ø 16x2,2 | ø 20x2,8 | ø 25x3,5 | ø 32x4,4 |
|---------------------------|----------|----------|----------|----------|
| Internal diámetro ( mm )  | 11,6     | 14,4     | 18,0     | 23,2     |
| Volume of liquid ( l/m )  | 0,106    | 0,163    | 0,250    | 0,423    |
| Max. temperature ( °C )   | 70       | 70       | 70       | 70       |
| Max. pressure ( 95° C )   | 8 bar    | 6 bar    | 6 bar    | 6 bar    |
| Min. bending radius /hot  | 35 mm    | 45 mm    | 55 mm    | 100 mm   |
| Min. bending radius /cold | 35 mm    | 90 mm    | 125 mm   | 165 mm   |
| Burst pression at +20° C  | 29 bar   | 25 bar   | 20 bar   | 27 bar   |



### Gas barrier properties of EVOH

| Gas             |                                | GTR<br>(cm³.20µm/m².day.atm) |
|-----------------|--------------------------------|------------------------------|
| Oxygen          | O <sub>2</sub>                 | 0.18                         |
| Nitrogen        | N <sub>2</sub>                 | 0.017                        |
| Carbon monoxide | CO                             | 0.25                         |
| Carbon dioxide  | CO <sub>2</sub>                | 0.59                         |
| Methane         | CH <sub>4</sub>                | 0.4                          |
| Ethylene        | C <sub>2</sub> H <sub>4</sub>  | 0.1                          |
| Butane          | C <sub>4</sub> H <sub>10</sub> | 0.1                          |
| Chlorine        | Cl <sub>2</sub>                | 0.022                        |
| Sulphur Dioxide | SO <sub>2</sub>                | 0.3                          |

Measuring conditions: 23°C - 0%RH (ASTM D1434T) - Properties of EVOH - ethylene content = 32 mol%

### Manufactured in conformity with the following international standards

**ISO 22391.** Plastics piping systems for hot and cold water installations — Polyethylene of raised temperature resistance (PE-RT)  
**DIN 4726.**