

PE-RT EVOH 5 Layers

PHYSICAL PROPERTIES

Material	High temperature resistance polyethylene
Density	$\geq 0.941 \text{ g/cm}^3$
Roughness	0.007 mm
O₂ permeability at 40 °C	$\leq 0.32 \text{ g/m}^2 \cdot \text{d}$

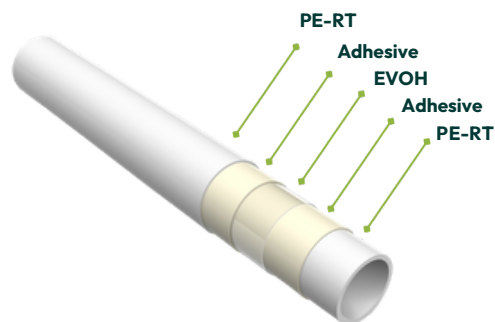
THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 22391	20 °C to 90 °C
Operating Temperature Range	-20 °C to 70 °C
Heat reversal (120°C, 1 hour)	$\leq 2.0 \%$
Thermal conductivity	0.4 W/m*K
Specific heat (23 °C)	1.8 KJ/kg*K

DIMENSIONS

Description	Diameter tolerance (mm)	Thickness tolerance (mm)
8 x 1.0	8 - 8.30	1.0 - 1.30
10 x 1.25	10.0 - 10.30	1.25 - 1.55
12 x 1.2	12.0 - 12.30	1.20 - 1.50
14 x 2.0	14.0 - 14.30	2.0 - 2.30
16 x 1.8	16.0 - 16.30	1.80 - 2.10
16 x 2.0	16.0 - 16.30	2.0 - 2.30
17 x 2.0	17.0 - 17.30	2.0 - 2.30
18 x 2.0	18.0 - 18.30	2.0 - 2.30
20 x 2.0	20.0 - 20.30	2.0 - 2.30
25 x 2.3	25.0 - 25.30	2.30 - 2.60
32 x 2.9	32.0 - 32.30	2.90 - 3.30

Other dimensions and colours are available on request



CERTIFICATIONS

- AENOR (Spain)
- SKZ (Germany)
- DIN CERTCO (Germany)
- IIP (Italy)
- KOMO (Netherlands)

STANDARD

- EN ISO 22391

APPLICATIONS

- Underfloor heating systems
- Cooling systems
- Industries facilities
- Ice and snow removal system on surface
- Lawn conditioning

CLASSIFICATION ACCORDING TO SERVICE CONDITIONS

Class	Temperatures	Temperature of design	Temperature of malfunction	Applications
1	+ 60°C - 49 years	80°C - 1 year	95°C - 100 h	Hot water supply
2	+ 70°C - 49 years	80°C - 1 year	95°C - 100 h	Hot and cold water distributions
4	+ 20°C - 2.5 years	70°C - 2.5 years	100°C - 100 h	Radiant floor heating and low-temperature radiators
	+ 40°C - 20 years			
	+ 60°C - 25 years			
5	+ 20°C - 14 years	90°C - 1 year	100°C - 100 h	High-temperature radiators
	+ 60°C - 25 years			
	+ 80°C - 10 years			

