

CosyFloor®

Underfloor Heating Pipe

Advanced Flexible 5-Layer PE-RT Pipe

The **CosyPipe** PE-RT Polythene 5 layer raised temperature tube manufactured to DIN 4276 and with a 50-year guarantee. The system complies with ISO 9001 and with BS EN 1264 Parts 1 to 4 and KIWA / KOMO Water Regulations 1999 Manufactured in EU.

The **CosyFloor** PE-RT is made up of 5 separate Layers:

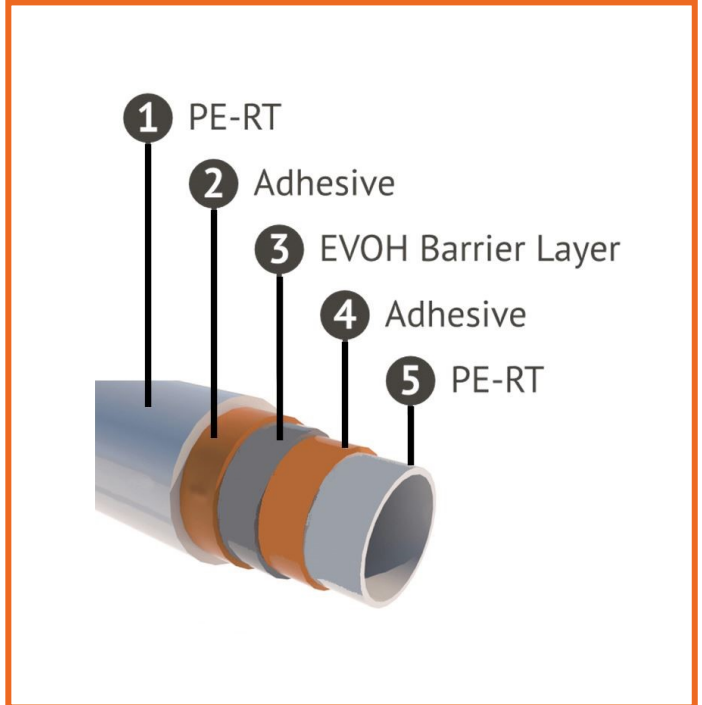
- A Polyethylene Inner Layer
- An adhesive layer bonding the inner pipe to the oxygen layer
- Ethylene vinyl alcohol copolymer (EVOH) oxygen barrier layer
- An adhesive layer bonding the inner pipe to the oxygen layer
- A Polyethylene Outer Layer

Physical Characteristics

Characteristic	Value	Unit
Density	>941	Kg/m ³
Roughness	0.007	mm

Thermal Characteristics

Characteristic	Value	Unit
Maximum	95	°C
Maximum high temperature 120°C	110	°C
Heat reversion 120°C	<2.0	°C
Thermal expansion coefficient	1.8	10 ⁻⁴ /K
Thermal conductivity at 60°C	0.4	W/m K
VICAT softening point	124.7	°C
Oxidation induction time (OIT)	>40	Min
Permeability O ₂ at 40°C	<0.1	g/m ³ d



Mechanical Characteristics

Characteristic	Value	Unit
Tensile Resistance	>22	N/mm ²
Elongation at break	>400	%
Internal pressure resistance s=4.8 Mpa, 95°C	>1	Hours
Internal pressure resistance s=4.7Mpa, 95°C	>22	Hours
Internal pressure resistance s=4.6 Mpa, 95°C	.165	Hours
Internal pressure resistance s=4.4 Mpa, 95°C	>1000	Hours
Internal pressure resistance s=2.5 Mpa, 110°C	>1	Year

Pipe Dimensions

Pipe	Diameter (mm)	Norm thickness (mm)	UFHS thickness (mm)	Medium thickness (mm)	Ovality	Sampling
16 x 2.0	16.00–16.30	2.00–2.30	2.10– 2.25	2.13–2.21	0.6	400m
17 x 2.0	17.00–17.30	2.00–2.30	2.10– 2.25	2.13–2.21	0.6	300m
18 x 2.0	18.00–18.30	2.00–2.30	2.10– 2.25	2.13–2.21	0.7	300m
20 x 2.0	20.00–20.30	2.00–2.30	2.10– 2.25	2.13–2.21	0.8	300m
25 x 2.3	25.00-25.30	2.00–2.70	2.35– 2.65	2.45–2.55	0.8	200m

Below is an example of our standard marking for PE-RT pipe:

16x2mm – PERT EVOH – Type II – EN ISO 22391 – Class 1-4/8 bar Class 2-5/6 bar (date) (Time) (Meterage) (Line)

CosyFloor 5 Layer PE-RT Pipes are exclusively available at UFH Supplies Ltd Trading as CosyFloor

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