

5 layer PE-RT Underfloor Heating Pipe

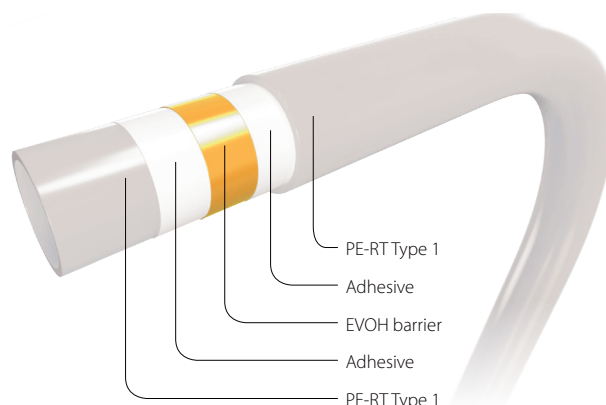
This Polyethylene Raised Temperature tube is made of 5 layers. The first layer or the basic layer is made of PE-RT type 1. The second layer is an adhesive layer for fixing the third layer, the EVOH layer. This layer guarantees that the tube stops the oxygen diffusion. The U-Tube Systems tube is impermeable to the oxygen diffusion in accordance with DIN 4726.

FEATURES

The PE-RT type 1 resin has a good flexibility. It is an polyethylene copolymer with a unique molecular structure, based on a controlled distribution in a side chain. Consequently, it proves its higher behavior with respect to the lifetime until breakdown, without requiring the crosslinking PEX.

The PE-RT type 1 resin is optimally stabilized anti-ageing, so that the piping systems fitted on these PE-RT have a calculated lifetime of at least 50 years under normal operating conditions, based on the internationally accepted regulations. In addition, the material is authorized as per the most used regulations with respect to drinking water.

The tubes made of PE-RT type 1 resin may be used at a temperature range of 5°C to 80°C. The short-term peak charges of up to 95°C at an internal hydrostatic overpressure of 6 bar at most are supported without any issues.



TECHNICAL DETAILS:

Temperature Range	5°C - 80°C, Peak 95°C
Density	0.933g cm3 (ASTM D792)
Linear expansion coefficient	20°C-70°C 0.19 mm mK (DIN 53752 A)
Thermal conductivity at 60°C	0.4 W mK (DIN 52612-1)
Softening Point (Vicat)	122°C (ASTM D-1525)
Max. elongation at break	800% (ISO 527-2)
Bending radius	5 x Diameter
Oxygen Density	EVOH layer (DIN 4726)
Certification	KOMO, MPA. (SKZ-Pending)
Warranty	50 years, first 10 years with consequential damage.

Available Diameters at variable wall thickness

10 mm
12 mm
14 mm
15 mm
16 mm
17 mm
18 mm
20 mm
25 mm



U-Tube systems bv

Slabbecoornweg 43
4691RZ Tholen - The Netherlands

T +31 (0)166 - 712 020
F +31 (0)166 - 712 022
E info@u-tubesystems.com
W www.u-tubesystems.com

