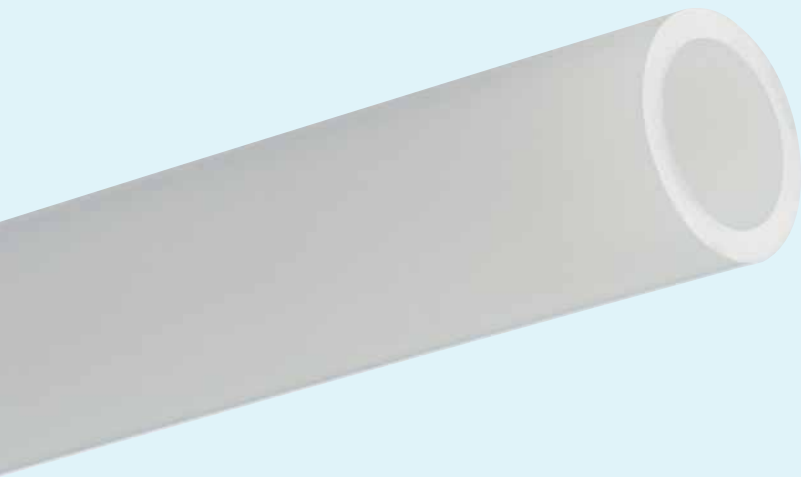


PE-RT pipes with oxygen barrier



PE-RT pipes for surface regulation

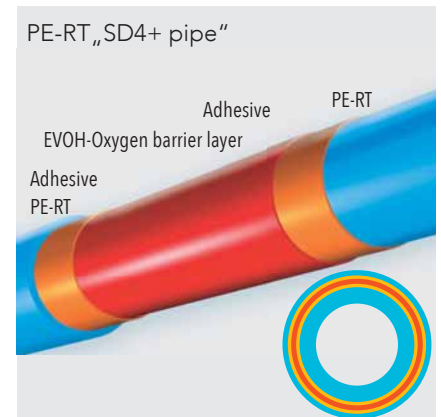
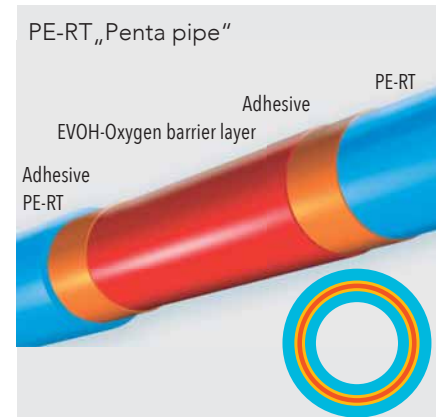
Applications:
floor heating and cooling,
wall heating and cooling,
ceiling cooling

Special properties

- easy to install
- quick laying even on large surfaces
- simple installation even at sub zero temperature
- oxygen tight in accordance to DIN 4726 due to EVOH layer
- corrosion and incrustation free
- stress crack resistant
- increased temperature resistance in comparison to traditional PE
- colours according to customer requirements
- delivery in coils

Technical data »PE-RT pipe«

Test		Value	Unit	Standard
Density	23°C	≈ 0,933	g/cm ³	DIN 53479
Notch impact test according to Charpy	23°C	no failure	kJ/m ²	DIN EN ISO 179-1/2
Tensile strength	23°C	35	N/mm ²	DIN EN ISO 6259-1
Tenacity	23°C	34	N/mm ²	DIN EN ISO 6259-1
Elongation at break	23°C	>800	%	DIN EN ISO 6259-1
Elastic modulus (E module)	23°C	≈ 500	N/mm ²	DIN 16833/DIN EN ISO 128
Stress crack resistance		no failure		ASTM D 1693
Moisture absorption		<0,01	mg (4d)	DIN EN ISO 62
Coefficient of linear expansion	0°C - 70°C	1,9 · 10 ⁻⁴	1/K	DIN 168833 / DIN 53752
Thermal conductivity		0,4	W/(K · m)	DIN 16833 / DIN EN 12664
Smallest bend radius		≥ 5 · D	mm	DIN 4721
Oxygen tightness	40°C 80°C	≤ 0,32 ≤ 3,6	mg/(m ² · d) mg/(m ² · d)	DIN 4726 DIN 4726
All values are guide values.				



PE-RT pipe according to DIN 16833/834 · oxygen-impermeable according to DIN 4726

Application area heating							
PE-RT pipe measurement				operating conditions according to DIN 4724			
				Class 4		Class 5	
d _n mm	e _n mm	S- value	SDR- value	T _{max} °C	pressure bar	T _{max} °C	pressure bar
10,5	1,25	4	9	70	4	90	4
12	2	2,5	9	70	4	90	4
14	2	4	9	70	4	90	4
16	2	4	9	70	4	90	4
17	2	4	9	70	4	90	4
18	2	4	9	70	4	90	4
20	2	5	11	70	4	90	4
25	2,3	5	11	70	4	90	4

d_n = outer diameter
 e_n = wall thickness
 S = nominal pipe serial number according to ISO 4065
 SDR = standard dimension ratio, allocation of SDR values according to DIN 16895