



TECHNICAL DATA

Material	PE-RT
Expected Product Lifetime	Building Lifetime
Warranty	50 year guarantee
Collateral Warranty Available	Yes
Manufacturing	Male-male adaptor

Physical Properties	Unti	Result
Colour	-	White or Natural
Density	kg/m3	> 941
Layers	-	5
Oxygen Diffusion Barrier	-	EVOH - mid layer in the pipe wall
Oxygen Barrier Method	-	DIN 4726
Max Operating Temp @ Pres-sure	°C @ bar	60@ 6 bar
Bending Radius	mm	5 x D =
16.5=82.5; 16=80; 13.2=66; 12=60	-	-
Pipe Roughness	mm	0.007
Available Sizes	mm	16.5 x 1.7; 16x2; 12 x 1.4
Coil Sizes	M	100m; 400m

Mechanical Properties		
Tensile resistance	N/mm2	>22
Elongation at break	%	>400
Internal pressure resistance s=9.9 Mpa, 20°C	Hours	>1
Internal pressure resistance s=3.9 Mpa, 95°C	Hours	>22
Internal pressure resistance s=3.7 Mpa, 95°C	Hours	>165
Internal pressure resistance s=3.5 Mpa, 95°C	Hours	>1000
Internal pressure resistance s=1.9 Mpa, 110°C	Year	>1

Thermal Properties		
Maximum service temperature	°C	95
Maximum high temperature	°C	110
Heat reversion 120°C heat; 1 hour	%	<2.0
Coefficient of thermal expansion	m/K	1.8 x 10 -4
Coefficient of linear expansion	m/K	1.95 x 10 -4
Thermal conductivity @ 60°C	W/m K	0.4
Vicat softening temperature	°C	124.7
Oxidation induction time (OIT)	Min.	>40
Permeability O ² at 40°C	g/m ³ d	<0.1

Application class	Main function	Class of temperature	Temperature (°C)	Time (years)
1	Hot water	Temperature of design	60	49
		Temperature max.	80	1
		Temperature malfunction	95	0.0114
2	Hot water	Temperature of design	70	49
		Temperature max.	80	1
		Temperature malfunction	95	0.0114
4	Underfloor heating and low temperature radiators	Temperature of design	20	2.5
		Temperature of design	40	20
		Temperature of design	60	25
		Temperature max.	70	2.5
		Temperature malfunction	100	0.0114
5	High temperature radiators	Temperature of design	20	14
		Temperature of design	60	25
		Temperature of design	80	10
		Temperature max.	90	1
		Temperature malfunction	100	0.0114

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