

NOVATHERM

PE-RT PIPES

Heating System

Advantages

- Cost effective
- Easy installation
- Hygienic and clean
- Very smooth surface
- Excellent process ability
- Excellent impact properties
- Lightweight, easy to transport
- Flexibility to speed installations
- Higher Long-Term Hydrostatic Strength (LTHS)

Application Areas

- Radiator connections
- Outdoor snow melting
- District heating / cooling
- Under-Floor & Wall heating
- Radiant heating and cooling systems (doors, walls, ceilings)
- Hot and cold water plumbing applications; residential and commercial



NOVATHERM PE-RT pipes are manufactured from raised temperature polyethylene with advanced polymeric structure which makes them the best solution for a wide range of liquid transportation. the advantages of NOVATHERM PE-RT-over other plastic and metal piping systems, such as very high operation temperatures, non-corrosiveness, flexibility, higher impact strength at lower temperatures and speed of installation, are considered the main reasons for being preferred by engineers for residential and industrial projects. NOVATHERM PE-RT pipes from 16 mm, 20 mm, 25 mm and 32 mm and according to DIN 16833 and ISO 22391 standards.



Pipe Wall Thicknesses and Other Physical Properties

OD (Outer Diameter)	S (Wall Thickness)	Standard Dimension Ratio	Nominal Pressure	Compressive Strength (According to the Installation Type)	Coil/Length
16	1.8	SDR 9	PN 16	1/8; 2/8; 4/10; 5/8	160.0, 200.0, 400.0, 500.0, 600.0
	2.0				
	2.2	SDR 7.4	PN 20	1/10; 2/10; 4/10; 5/10	
17	2.0	SDR 8.5	PN 16	1/8; 2/8; 4/10; 5/8	160.0, 200.0, 400.0, 500.0, 600.0
20	2.0	SDR 11	PN 12.5	1/6; 2/6; 4/8; 5/6	160.0, 200.0, 400.0, 500.0,
	2.8	SDR 7.4	PN 20	1/10; 2/10; 4/10; 5/10	
25	2.3	SDR 11	PN 12.5	1/6; 2/6; 4/8; 5/6	160.0, 200.0
32	2.9	SDR 11	PN 12.5	1/6; 2/6; 4/8; 5/6	160.0, 200.0

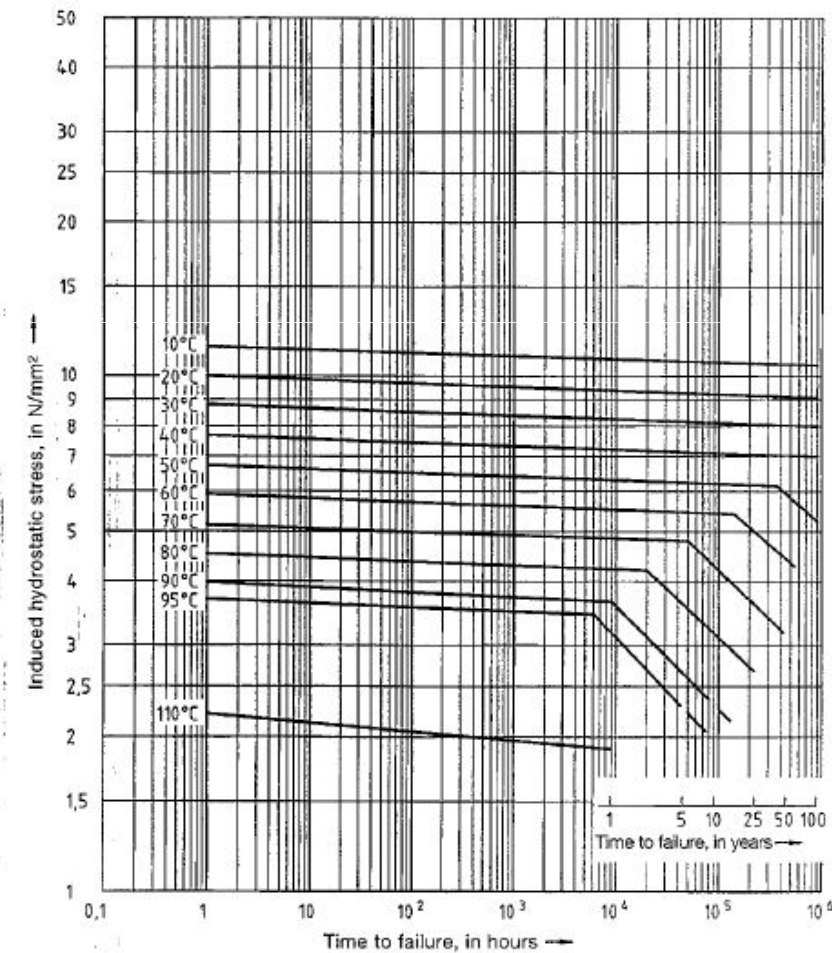


Radiator
Output



Underfloor
Output

Service Life



Mechanical and Thermal Properties of the PERT Raw Material

Features	Test Method	Unit	Value
Density	ASTM D1505	g/cm³	0.941
Melt Index,190 °C/2.16 kg	ASTM D1238	g/10 min	0.6
Melt Index,190 °C/5 kg	ASTM D1238	g/10 min	2
Vicat Softening Point	ASTM D1525	°C	123
Tensile Yield Strength	ASTM D638	kg/cm²	199
Ultimate Tensile Strength	ASTM D638	kg/cm²	350
Ultimate Elongation	ASTM D638	%	760
Flexural Strength	ASTM D790	kg/cm	5600
Hardness,Shore D	ASTM D2240	-	56



No Calcification and Corrosion



High Temperature Strength



No Size Reduction



Easy Installation



Easy to Transport



Certificate of Conformity to Standard