

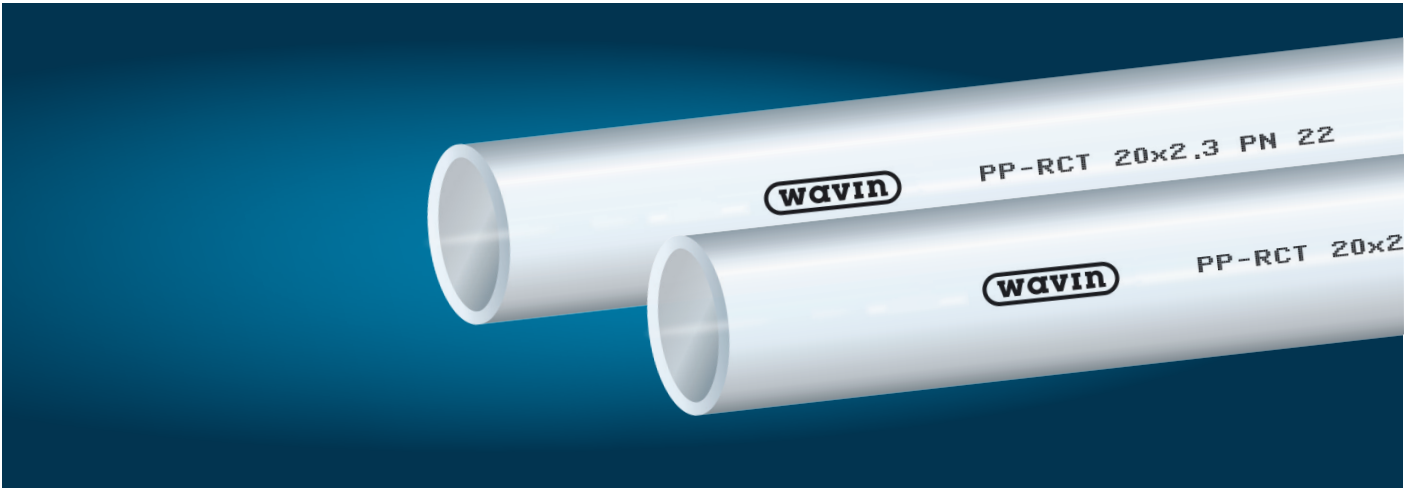
# Wavin PP-RCT

Hot and Cold Water Systems  
Heating & Cooling Applications



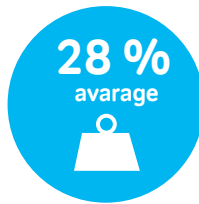
# Wavin PP-RCT

A better pipe with higher flow rate, improved pressure resistance and easier to handle. A pipe made of new generation polypropylene (PP-RCT)



## Features and Advantages of Wavin PP - RCT Pipe:

- It is the better pipe with higher flow rate and improved pressure resistance.
- Larger inner bore hole and better flow rates. Thus, smaller diameters can be selected.
- It has improved pressure resistance at higher temperatures for long term period
- Easy to carry, handle and installation due to lower weight.
- Wavin PP-RCT Pipes can be used with all standard Wavin PP-R Fittings.



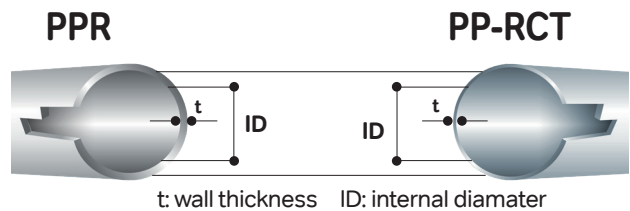
28% lighter



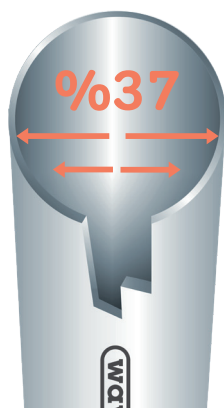
Higher pressure resistance at high temperatures



PN22 Pressure Resistance (SF:1,25)



**37 % larger inner flow area**



Parameter	Unit	PPR		PP-RCT	
		PPR	PP-RCT	PPR	PP-RCT
OD	mm	20	20	25	25
Pipe Serie	-	2,5	4	2,5	4
Wall Thickness	mm	3,4	2,3	4,2	2,8
ID	mm	13,2	15,4	16,6	19,4
Inner Flow Area A	mm <sup>2</sup>	137	186	217	296
ΔA	%	0	37	0	37

(\*) Advantages are compared to traditional PP-R

## Technical Specifications of the Pipe

<b>Raw Material</b>	PP-RCT
<b>S (SDR)</b>	S4 (SDR9)
<b>Pressure Resistance</b> (SF= 1,25)	20 °C / 50 year / 22 bar
	60 °C / 50 year / 12.2 bar
	70 °C / 50 year / 10.2 bar



## Welding temperature and cooling time of PP-RCT pipes with PPR Fittings

Pipe Dia (mm)	Welding Depth. (mm)	Heating Time (dak.)	Processing Time (dak.)	Coolin Time (dak.)	
20	14	5	4	2	Manuel Welding
25	16	7	4	2	
32	18	8	6	4	
40	20	12	6	4	
50	23	18	6	4	
63	26	24	8	6	Welding Machine
75	28	30	10	8	
90	30	40	11	8	
110	33	50	12	8	
125	35	60	13	10	

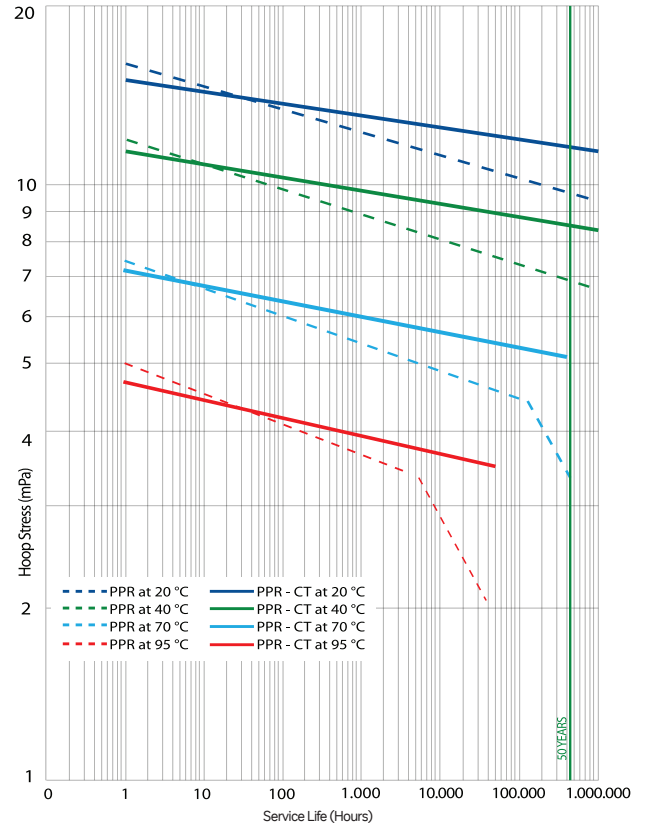
\* Welding temperature should not exceed 260 °C.

## PPR / PP - RCT Wall Thickness

OD (mm)	PPR	PPR	PPRCT
	Serie 2,5	Serie 3,2	Serie 4
	PN 20	PN 16	PN 22
20	3,4	2,8	2,3
30	4,2	3,5	2,8
32	5,4	4,4	3,6
40	6,7	5,5	4,5
50	8,3	6,9	5,6
63	10,5	8,6	7,1
75	12,5	10,3	8,4
90	15,0	12,3	10,1
110	18,3	15,1	12,3
125	20,8	17,1	14,0

\* Get information for other diameters

## PP-RCT Isothermal Mechanical Resistance Graphic



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