

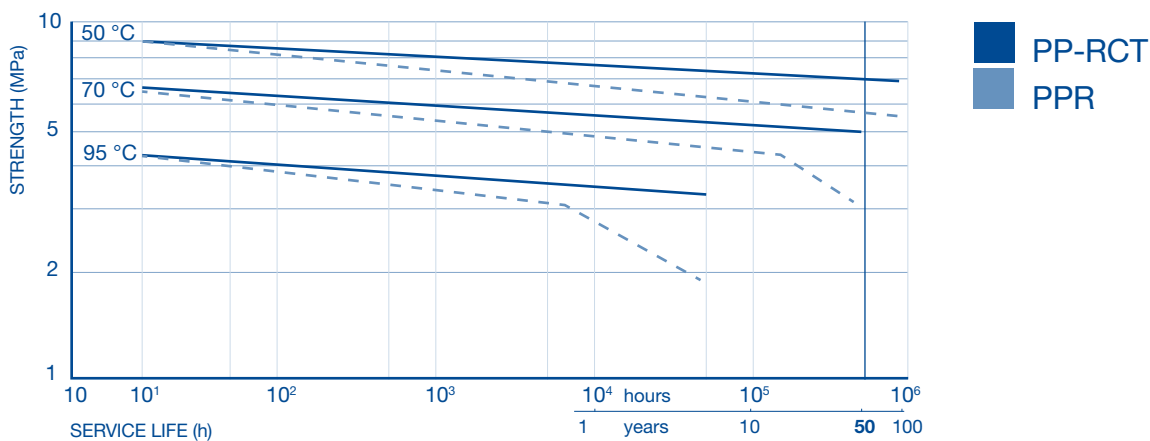
EVO

All-plastic pipe from PP-RCT

- ⊕ EVO = a new high standard for all-plastic pipes
- ⊕ An all-purpose pipe for cold and hot water distribution
- ⊕ The EVO pipe is fully compatible with Ekoplastik System fittings

PP-RCT = The type 4 new generation polypropylene = higher resistance of pipes

Regression curves PPR and PP-RCT



Pressure, temperature and service life dependences are linear even at high temperatures, similar to cross-linked polyethylene (PEX) and polybutene (PB).

Properties:

EVO pipe	D [mm]	D ₁ [mm]	t [mm]	l [mm]	[m]	[kg/m]	Code
EVO pipe S 3,2 / SDR 7,4 PN 28 (calculation)							
	16	11,6	2,2	4 000	160	0,095	STRE016S32
EVO pipe S 4 / SDR 9 PN 22 (calculation)							
	20	15,4	2,3	4 000	100	0,127	STRE020S4
	25	19,4	2,8	4 000	60	0,191	STRE025S4
	32	24,8	3,6	4 000	40	0,313	STRE032S4
	40	31,0	4,5	4 000	24	0,487	STRE040S4
	50	38,8	5,6	4 000	16	0,755	STRE050S4
	63	48,8	7,1	4 000	12	1,200	STRE063S4
	75	58,2	8,4	4 000	8	1,690	STRE075S4
	90	69,8	10,1	4 000	4	2,440	STRE090S4
	110	85,4	12,3	4 000	4	3,620	STRE110S4
	125	97,0	14,0	4 000	4	4,660	STRE125S4

TECHNICAL SHEET



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Pressure and high temperature resistance of EVO PP-RCT pipes

EVO, S 4, material PP-RCT		
Temperature [°C]	Service life [years]	Acceptable operating overpressure [bars]
10	50	22,2
20	50	19,3
30	50	16,6
40	50	14,2
50	50	12,1
60	50	10,2
70	50	8,5
80	25	7,2
95	5	5,6

Pipe support spacing for EVO PP-RCT pipes:

Support spacing depends on the thickness of the pipe wall.

Pipe Ø [mm]	Support spacing [cm] at water temperature °C					
	20°	30°	40°	50°	60°	80°
16	80	75	75	70	70	60
20	85	80	75	75	70	65
25	90	90	90	85	80	75
32	105	100	100	95	90	80
40	115	115	110	105	100	90
50	130	125	120	115	110	95
63	145	140	135	130	125	110
75	160	155	150	140	135	120
90	170	170	160	155	150	130
110	190	185	180	170	165	145
125	205	200	190	185	180	160

Welding EVO PP-RCT pipes:

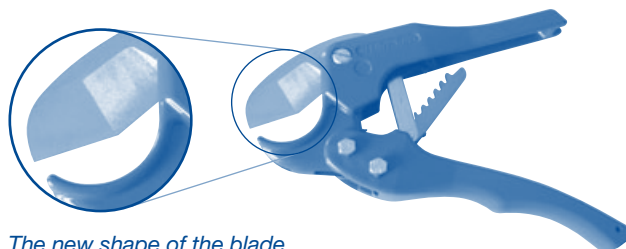
- ⌚ PPR and PP-RCT pipes share the same welding parameters.
- ⌚ Weld quality depends on several factors. Make sure to:
 - adjust the heating period depending on the pipe diameter
 - set the welding temperature at 260 °C

Polyfusion welding chart	
D [mm]	Heating period [s]
16	5
20	5
25	7
32	8
40	12
50	18
63	24
75	30
90	40
110	50
125	60

Do not heat-up the pipe longer than necessary!
Thinner walls – appropriately long heat-up – perfect weld – time saved!

Cutting pipes:

We recommend using the new **Profi scissors**. Equipped with smartly shaped blades for more comfortable handling, the newly improved scissors are suitable for cutting all types of Ekoplastik pipes.



The new shape of the blade

In order to create solid and homogeneous welds, make sure to observe all the conditions listed above.

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