

POLYMELT SDR 9 PP-RCT PIPES

**THINNER WALLS, HIGHER EFFICIENCY  
WIDER INNER DIAMETER HIGHER FLOW**



# PP-RCT SDR 9 Pipes WIDER INNER DIAMETER, HIGHER FLOW RATE

POLYMELT ECOSAN PP-RCT impress with their improved stability and efficiency. With their modified crystallinity and improved temperature resistance, they offer numerous advantages over conventional PP-R pipes. Above all: reduced wall thickness at the same pressure level as conventional SDR 6 pipes for hot water.

## Larger inner diameter for higher flow rate

Thanks to the superior strength of PP-RCT material, the pipes can have thinner walls, resulting in a larger inner diameter and increased flow rate. As a result it is possible to choose a smaller pipe dimension, depending on the flow rate,

## Lower weight

Compared to SDR 6 and multi-layer SDR 7.4 pipes, SDR 9 pipes have a lower weight. This makes handling and installation easier and faster.

## Improved mechanical properties

PP-RCT pipes have higher impact strength and fracture resistance, leading to a longer lifespan and reduced risk of damage.

## Low linear expansion

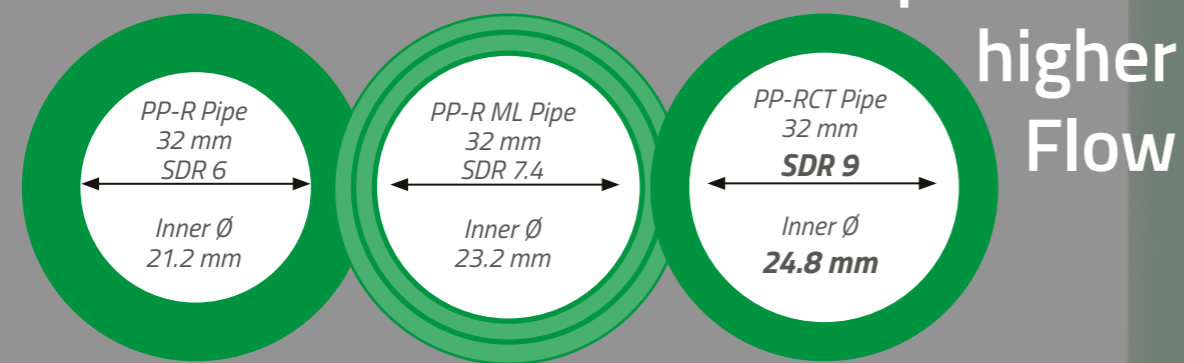
PP-RCT fiber pipes exhibit minimal linear expansion, ensuring simplified elongation compensation.

## Environmentally friendly and sustainable

PP-RCT pipes are 100% recyclable and more resource-efficient because less material is required. A contribution to a more sustainable development.



## See the Difference



## Working Pressure POLYMELT ECOSAN PP-RCT SDR 9

Long Therm Stress Behaviour with Safety Factor (s=1,25)

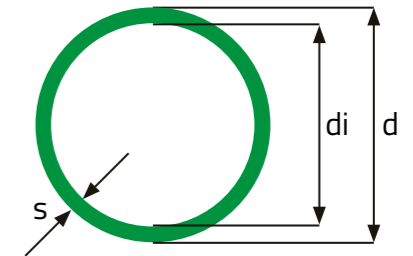
Temperature (°C)	1 Year of Operating	5 Years of Operating	10 Years of Operating	25 Years of Operating	50 Years of Operating
Maximum Service Pressure (bar)					
20	25,0	24,2	23,9	23,5	23,1
30	21,7	20,9	20,6	20,2	19,9
40	18,6	18,0	17,7	17,3	17,1
50	15,9	15,3	15,1	14,7	14,5
60	13,5	13,0	12,7	12,4	12,2
70	11,3	10,9	10,7	10,4	10,2
80	9,5	9,0	8,9	8,4	8,0
95	7,1	6,7	6,6	-	-

**100 %**  
Made in Germany

- Up to 35% Higher Flow Rate
- Excellent Service Pressure
- Compatible with regular POLYMELT PP-R Fittings

## POLYMELT ECOSAN Pipe SDR 9 Single Layer

Material: PP-RCT  
Pipe structure: Single-Layer  
Color: Green with Orange Line  
Pipe Series: SDR 9 / S 4  
Standards: According DIN 8077/78, EN ISO 15874  
Pipe length : 4 m  
Application class: Class 1/8 bar; Class 2/8 bar



SDR	Item No.	Outer diameter (d) (mm)	Wall thickness (s) (mm)	Inner diameter (di) (mm)	DN	Water content (l/m)	Weight (kg/m)	Packaging unit (m)
9	16923	25	2,8	19,4	20	0,30	0,19	20 m / 4 m
9	16924	32	3,6	24,8	25	0,48	0,31	20 m / 4 m
9	16925	40	4,5	31,0	32	0,75	0,49	12 m / 4 m
9	16926	50	5,6	38,8	40	1,18	0,76	8 m / 4 m
9	16927	63	7,1	48,8	50	1,87	1,20	4 m / 4 m
9	16928	75	8,4	58,2	-	2,66	1,69	4 m / 4 m
9	16929	90	10,1	69,8	65	3,83	2,44	4 m / 4 m
9	16930	110	12,3	85,4	80	5,73	3,62	4 m / 4 m
9	16931	125	14,0	97,0	100	7,39	4,66	4 m / 4 m

## POLYMELT ECOSAN Pipe SDR 9 Fiber Multi Layer

Material: PP-RCT with fiber reinforcement  
Pipe structure: Fiber Multi Layer  
Color: Green with Orange Line  
Pipe Series: SDR 9 / S 4  
Standards: According DIN 8077/78, EN ISO 15874  
Pipe length : 4 m  
Application class: Class 1/8 bar; Class 2/8 bar

- Lower linear Expansion
- Higher Stability
- Fewer fixing Points
- Easier Installation & Planning



SDR	Item No.	Outer diameter (d) (mm)	Wall thickness (s) (mm)	Inner diameter (di) (mm)	DN	Water content (l/m)	Weight (kg/m)	Packaging unit (m)
9	16524	32	3,6	24,8	25	0,483	0,31	40 m / 4 m
9	16525	40	4,5	31,0	32	0,754	0,49	20 m / 4 m
9	16526	50	5,6	38,8	40	1,182	0,76	20 m / 4 m
9	16527	63	7,1	48,8	50	1,870	1,20	12 m / 4 m
9	16528	75	8,4	58,2	-	2,660	1,69	8 m / 4 m
9	16529	90	10,1	69,8	65	3,826	2,44	4 m / 4 m
9	16530	110	12,3	85,4	80	5,728	3,62	4 m / 4 m
9	16531	125	14,0	97,0	100	7,389	4,66	4 m / 4 m

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●●● Made in Germany