



REPOLEN FASER RP PIPES S3,2-SDR7,4 / S4-SDR9

REGULATIONS

UNE EN 15874	Plastics piping systems for hot and cold water installations. Polypropylene (PP)
DIN 8077	Polypropylene (PP) pipes - PP-H, PP-B, PP-R, PP-RCT - Dimensions
DIN 8078	Polypropylene (PP) pipes - PP-H, PP-B, PP-R, PP-RCT - General quality requirements and testing
RP 01.78	Specific Regulations of the AENOR Certificate of Conformity for Piping Systems made of Random Polypropylene with PP-RCT and Glass Fiber (GF) Structure
UNE EN ISO 21003	Multilayer piping systems for hot and cold water installations inside buildings
CTE	Spanish Technical Building Code
RD 03/2023	Technical-sanitary criteria for the quality of drinking water, its control and supply.

CERTIFICATES

AENOR	Pipe system
AENOR	Plastic pipes
EPD	Environmental Product Declaration

GENERAL FEATURES

Structure	MCF (MULTILAYER WITH GF, FASER)
Material	PP-R REPOLEN
Color	Green RAL 6024 with deep green lines



TECHNICAL FEATURES

PP-R MATERIAL

Density	905 kg/m ³
MFI (230°, 2.16Kg)	0.30 g/10min
Modulus of elasticity	900 Mpa
Impact resistance Charpy method at 0°C	4 kJ/m ²
Tensile strenght	25 Mpa
Tensile elongation	10%
Thermal conductivity coefficient (λ)	0.15 w/m·K
Linear thermal expansion coefficient (0°C to 70°C)	1.5 10 ⁻⁴ K ⁻¹

PRODUCT

Structure	MULTILAYER PP-RCT / PP-RCT + GF / PP-RCT
Color	Green RAL 6024 with 4 grey lines
Glass fiber content	18% GF layer. 6% total
Impact resistance (Staircase method)	No failures <0.5m
Longitudinal shrinkage	≤1%
Opacity	Yes
Roughness (k)	0.007 mm
Linear thermal expansion coefficient (α)	0.035 mm/m°C
Fire clasification. Halogen free	B2
Internal pressure resistance	
20° 1h	15MPa No failures
95° 22h	4,2MPa No failures
95° 165h	4MPa No failures
95° 1000h	3,8MPa No failures
Thermal stability by pressure test	
110° 8760h	2,6MPa No failures

 S3,2-SDR7,4

CODE	NOMINAL DIAMETER (mm) d	INT. DIAMETER (mm) di	THICKNESS (mm) e	WEIGHT (kg/m)	CAPACITY (l/m)
430200003	20	14,4	2,8	0,150	0,163
430200006	25	18	3,5	0,230	0,254

 S4-SDR9

CODE	NOMINAL DIAMETER (mm) d	INT. DIAMETER (mm) di	THICKNESS (mm) e	WEIGHT (kg/m)	CAPACITY (l/m)
430200005	32	24,8	3,6	0,320	0,483
430200004	40	31	4,5	0,490	0,755
430200009	50	38,8	5,6	0,765	1,182
430200010	63	48,8	7,1	1,235	1,87
430200011	75	58,2	8,4	1,695	2,66
430200012	90	69,8	10,1	2,425	3,826
430200013	110	85,4	12,3	3,555	5,728
430200014	125	97	14	4,565	7,39
430200016	160	124,2	17,9	7,255	12,115
430200017	200	155,2	22,4	12,488	18,908