

TECHNICAL SHEET



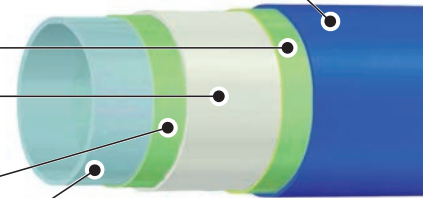
RDZ Tech Pipe PE-Xa Ø 16 is a crosslinked polyethylene pipe manufactured using the Organic Peroxide method, with EVOH oxygen barrier (5 layers) that prevents the permeability of the tube to oxygen diffusion, eliminating the problem of oxygen supply to the water flow and corrosion in the metal elements of the installation extending its lifetime. This pipe with an average greater than 70% of crosslinking degree provide major traction and pressure resistance, better stability under extreme temperature conditions, more flexibility and chemical resistance to solvents, oils and water without incrustations, corrosion or aging. Certified by the main European Institutes (AENOR, SKZ, CSTB, IIP) complying with the UNE-EN ISO 15875:2004 European regulations and ISO 9001.



Diameter (mm)	Roll (m)	Code
16	240	1013860
16	600	1013870

Stratigraphy

- 1- PE protective layer
- 2- Second adhesive polymeric layer for non-polarized combination
- 3- Oxygen barrier
- 4- First adhesive polymeric layer for non-polarized combination
- 5- PE-Xa pipe wall



PE-Xa pipe according to the European regulation UNE-EN ISO 15875:2004 European regulations and ISO 9001

Application field	CLASS 4	For use with underfloor heating and low temperature radiators (T _{max} 70 °C)
	CLASS 5	For use with high temperature radiators (T _{max} 90 °C)

Outside diam. (mm)	Thickness (mm)	Weight (g/m)	Ovality (mm)	CLASS 4 (bar)	CLASS 5 (bar)	Water content (l/m)
16 + 0,3	2 + 0,3	90	0,9	10	8	0,113

	Feature	Value	Unit
PHYSICAL CHARACTERISTICS	Density	951	Kg/m ³
	Degree of crosslinking	> 70	% weight
	Roughness factor	0,007	mm
THERMAL CHARACTERISTICS	Maximum service temperature	95	°C
	Maximum high temperature	110	°C
	Heat reversion 120 °C heat; 1 hour	< 2,5	%
	Specific heat at 23 °C	2,3	KJ/(Kg·K)
	Thermal conductivity	0,35 ÷ 0,38	W/(m·K)
	VICAT temperature	130 ÷ 132	°C
	Permeability O ₂	0,08	g/(m ³ ·d)
	Linear extension coefficient	0,026	mm/(m·K)
MECHANICAL CHARACTERISTICS	Tensile resistance	> 22	N/mm ²
	Elongation at break	> 400	%
	Modulus of elasticity at 20 °C	> 800	N/mm ²
	Internal pressure resistance s=2.5 Mpa, 110 °C	> 1	Year

