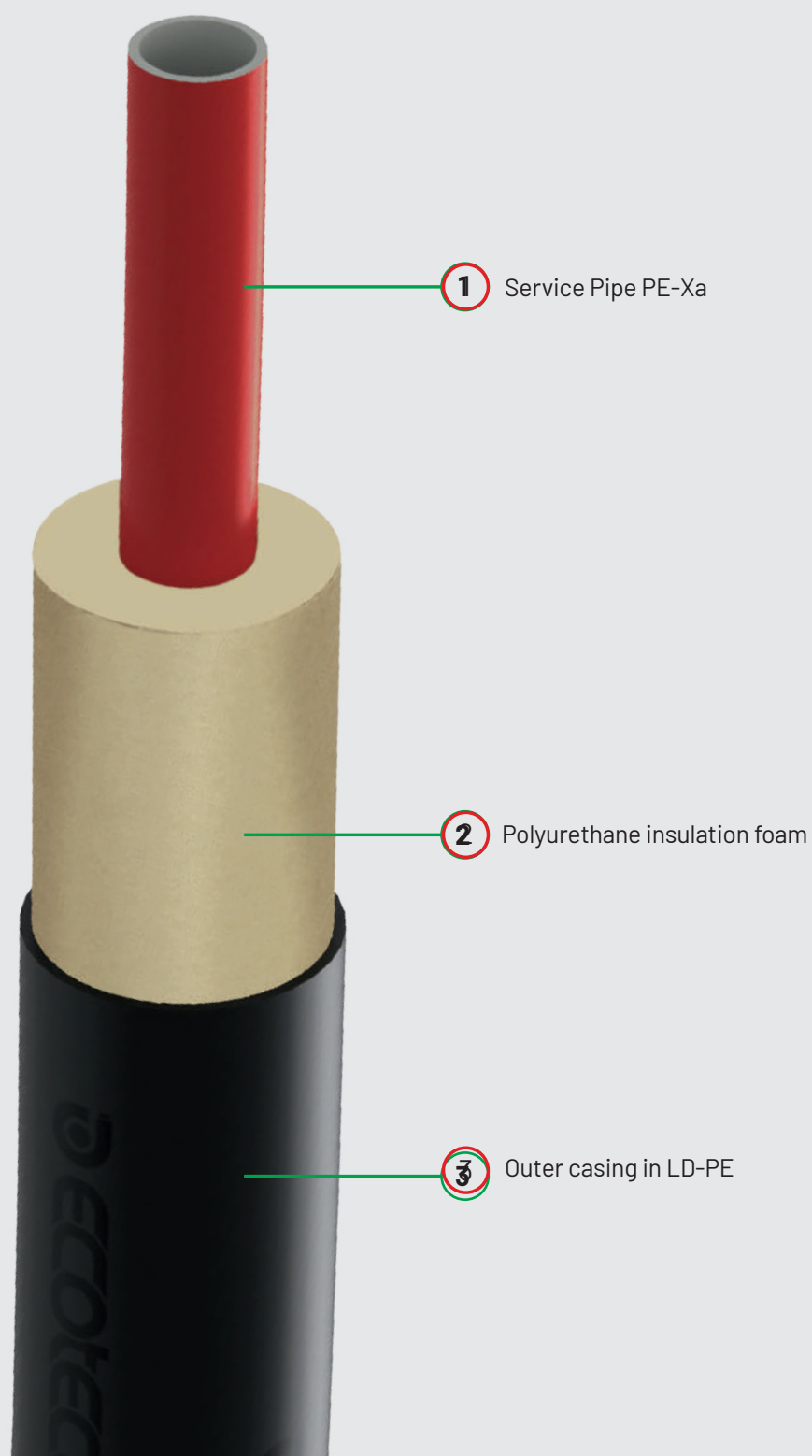


ECOPEX



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COMPOSITION

MATERIAL	High-density polyethylene (PE-HD), peroxide cross-linked PE-Xa, natural color
OXYGEN DIFFUSION BARRIER	Ethylene-vinyl alcohol (EVOH), thermally stabilized, natural color
ADHESIVE LAYER	Modified PE, heat-stabilized, red (for heating) and silver (for sanitary applications)
STANDARDS COMPLIANCE	DIN 16892 / DIN 16893 - DIN EN 12318-2 Series 3.2 according to DVGW W 544 technical specification
OXYGEN IMPERMEABILITY	DIN 4729 at 40°C Oxygen permeability relative to the pipe's internal volume according to DIN 4726: $\leq 0.10 \text{ g} / (\text{m}^3 \times \text{day})$
PIPE SERIES (DIN 16893)	Series 5: SDR 11 (for heating, with oxygen diffusion barrier) Series 3.2: SDR 7.4 (for sanitary installations)

POLYURETHANE INSULATION FOAM

MATERIAL	Polyurethane foam obtained by mixing polyol and isocyanate with a cyclopentane-based blowing agent.
REFERENCE STANDARD	Minimum characteristics according to EN 15632-2.
THERMAL CONDUCTIVITY	$(50^\circ\text{C}) \leq 0,02 \text{ W/mK}$
DENSITY	$\geq 50 \text{ kg/m}^3$
COMPRESSION STRENGTH	$\geq 0,2 \text{ MPa}$
LONG-TERM TEMPERATURE RESISTANCE	100°C
AXIAL SHEAR STRENGTH (EN 253)	$\geq 0,12 \text{ MPa}$

CASING LD-PE

MATERIAL	Low-density polyethylene (LD-PE) PE 80, compliant with ISO 12162. MFI variation $\leq 0.5 \text{ g/10 min.}$
REFERENCE STANDARD	Minimum characteristics according to EN 15632-2.
SPECIAL TREATMENT	Corona treatment.
DENSITY	$0,92 \text{ g/cm}^3$
ELASTIC MODULUS	325 N/mm^2
FIRE REACTION CLASSIFICATION (DIN 4102)	B2 (normal flammability).

GENERAL

The pipes are provided in coils cut to the lengths specified by the customer.

ECOPEX® HEATING

ECOPEX® Flexible Pre-insulated Pipes cross-linked Polyethylene PE-Xa with oxygen diffusion barrier PN6, Maximum operating temperature: 95°C – Compliant with EN 15632-1/2

ECOPEX UNO - HEATING PN 6 - STANDARD INSULATION



Type [mm]	PE-Xa				External PE casing		Min. bending radius [m]	Pipe weight [kg/m]	Fluid content [l/m]	Maximum roll length* [m]
	DN/ inch	d _{int} [mm]	wt [mm]	d _{ext} [mm]	D _e [mm]	wt [mm]				
25/75	20 - 3/4"	20,4	2,3	25	75	3,0	0,50	0,90	0,33	830
32/75	25 - 1"	26,2	2,9	32	75	3,0	0,50	1,00	0,54	830
40/90	32 - 1" 1/4	32,6	3,7	40	90	3,0	0,60	1,50	0,83	580
50/110	40 - 1" 1/2	40,8	4,6	50	110	3,0	0,70	1,80	1,31	380
63/125	50 - 2"	51,4	5,8	63	125	3,0	0,70	2,60	2,07	250
75/140	65 - 2" 1/2	61,4	6,8	75	140	3,0	0,80	3,30	2,96	170
90/160	80 - 3"	73,6	8,2	90	160	3,0	1,00	4,56	4,25	144
110/160	100 - 4"	90	10	110	160	3,0	1,20	6,40	6,36	144
125/180	125 - 5"	102,2	11,4	125	180	3,0	1,35	7,50	8,20	82

* Production tolerance +/- 5%.

The maximum length corresponds to a roll with a width of 1.2 meters and an external diameter of 2.8 meters. Nominal values.

ECOPEX DUO - HEATING PN 6 - STANDARD INSULATION



Type [mm]	PE-Xa				External PE casing		Min. bending radius [m]	Pipe weight [kg/m]	Fluid content [l/m]	Maximum roll length* [m]
	DN/ inch	d _{int} [mm]	wt [mm]	d _{ext} [mm]	D _e [mm]	wt [mm]				
25+25/90	20 + 20 2 x 3/4"	20,4	2,3	25	90	3,0	0,60	1,40	0,65	580
32+32/110	25 + 25 2 x 1"	26,2	2,9	32	110	3,0	0,65	1,90	1,08	380
40+40/125	32 + 32 2 x 1" 1/4	32,6	3,7	40	125	3,0	1,00	2,40	1,67	250
50+50/160	40+40 2 x 1" 1/2	40,8	4,6	50	160	3,0	1,10	3,80	2,61	144
63+63/180	50+50 - 2x2"	51,4	5,8	63	180	3,0	1,20	4,80	4,15	120
75+75/200	65 + 65 2 x 2" 1/2	61,4	6,8	75	200	3,0	1,40	6,25	5,92	75

* Production tolerance +/- 5%.

The maximum length corresponds to a roll with a width of 1.2 meters and an external diameter of 2.8 meters. Nominal values.

ECOPEX® SANITARY

ECOPEX® Pre-insulated Flexible Pipes – PE-Xa Cross-linked Polyethylene with Oxygen Diffusion Barrier, PN10, Maximum Operating Temperature: 95°C, Compliant with EN 15632-1/2.

ECOPEX UNO - SANITARY PN 10 - STANDARD INSULATION

Type [mm]	PE-Xa				External PE casing		Min. bending radius [m]	Pipe weight [kg/m]	Fluid content [l/m]	Maximum roll length* [m]
	DN/ inch	d _{int} [mm]	wt [mm]	d _{ext} [mm]	D _e [mm]	wt _p [mm]				
20/75	15 - 5/8"	14,4	2,8	20	75	3,0	0,50	0,96	0,16	830
25/75	20 - 3/4"	18	3,5	25	75	3,0	0,50	1,00	0,25	830
32/75	25 - 1"	23,2	4,4	32	75	3,0	0,50	1,10	0,42	830
40/90	32 - 1" 1/4	29	5,5	40	90	3,0	0,60	1,80	0,66	580
50/110	40 - 1" 1/2	36,2	6,9	50	110	3,0	0,70	2,20	1,03	380
63/125	50 - 2"	45,6	8,7	63	125	3,0	0,70	3,00	1,63	250
75/140	65 - 2" 1/2	54,4	10,3	75	140	3,0	0,80	4,30	2,32	170

* Production tolerance +/- 5%.

The maximum length corresponds to a roll with a width of 1.2 meters and an external diameter of 2.8 meters. Nominal values.

ECOPEX DUO - SANITARY PN 10 - STANDARD INSULATION

Type [mm]	PE-Xa				External PE casing		Min. bending radius [m]	Pipe weight [kg/m]	Fluid content [l/m]	Maximum roll length* [m]
	DN/ inch	d _{int} [mm]	wt [mm]	d _{ext} [mm]	D _e [mm]	wt _p [mm]				
25+20/90	20 + 15 3/4" + 5/8"	18 - 14,4	3,5-2,8	25 - 20	90	3,0	0,60	1,40	0,42	580
32+20/110	25 + 15 1" + 5/8"	23,2-14,4	4,4-2,8	32 - 20	110	3,0	0,65	2,00	0,59	380
40+25/125	32 + 20 1" 1/4 + 3/4"	29 - 18	5,5-3,5	40 - 25	125	3,0	0,70	2,60	0,91	250
50+32/140	40 + 25 1" 1/2 + 1"	36,2-23,2	6,9-4,4	50 - 32	140	3,0	0,75	3,50	1,45	170

* Production tolerance +/- 5%.

The maximum length corresponds to a roll with a width of 1.2 meters and an external diameter of 2.8 meters. Nominal values.