MOLECOR
Smart water

TOM

Transport of treated, reclaimed water, for agriculture, industry and communities

MOLECOR
Smart water

TOM PVC-O Class 500

Nominal Pressure (bar)			PN12,5		PN16		PN20		PN25	
Nominal Diameter (DN)	Outside Diameter (OD)		Inside Diameter (ID)	Wall Thickness C1.4 (e)	Inside Diameter (ID)	Wall Thickness C1.4 (e)	Inside Diameter (ID)	Wall Thickness C1.4 (e)	Inside Diameter (ID)	Wall Thickness C1.4 (e)
	min.	max.	moyen	min.	moyen	min.	moyen	min.	moyen	min.
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
90	90,0	90,3	-	-	84,3	2,0	-	-	83,0	3,1
110	110,0	110,4	103,6	2,0	103,1	2,4	103,0	3,1	100,8	3,8
125	125,0	125,4	117,8	2,2	117,8	2,8	117,1	3,5	114,5	4,3
140	140,0	140,5	132,3	2,5	132,3	3,1	131,1	3,9	128,3	4,8
160	160,0	160,5	152,1	2,8	151,2	3,5	149,8	4,4	146,6	5,5
200	200,0	200,6	190,1	3,5	189,0	4,4	187,3	5,5	183,3	6,9
225	225,0	225,7	213,9	4,0	212,6	5,0	210,7	6,2	206,2	7,7
250	250,0	250,8	237,6	4,4	236,3	5,5	234,1	6,9	229,1	8,6
315	315,0	316,0	299,4	5,5	297,7	6,9	295,0	8,7	288,6	10,8
355	355,0	356,1	337,4	6,2	335,5	7,8	332,5	9,8	325,3	12,2
400	400,0	401,2	380,2	7,0	378,0	8,8	374,6	11,0	366,5	13,7
450	450,0	451,4	427,7	7,9	425,3	9,9	421,4	12,4	412,3	15,4
500	500,0	501,5	475,2	8,8	472,5	11,0	468,2	13,7	458,1	17,1
630	630,0	631,9	598,8	11,0	595,4	13,8	590,0	17,3	577,2	21,6
710	710,0	712,0	674,8	12,4	671,0	15,4	664,9	19,2	-	-
800	800,0	802,0	760,4	14,0	756,1	17,4	749,2	21,6	-	-
900(1)	900,0	902,7	855,4	15,7	850,6	19,6	839,5	24,3	824,1	30,9
1 000	1 000,0	1 003,0	950,5	17,5	945,1	21,7	-	-	-	-
1 200(1)	1 200,0	1 203,6	1 140,6	21,1	1 134,1	26,2	-	-	-	-

TOM® PVC-O pipes are supplied in total length of 5.95 metres (including the length limit mark for the socket).
The inside diameters may be subjected to variation according to manufacturing tolerances.
(1) Items upon request. Consult delivery time. For other lengths for special projects, price on request.
DN1100: Not contemplated in ISO 16422: 2014 nor EN 17176: 2019.
DN1200: Not contemplated in ISO 16422: 2014 standard, manufactured according to EN 17176: 2019 standard specifications.
Available in blue (supply) and purple (reclaimed water). Consult for other colors.

AENOR TUBOS PLÁSTICOS

TOM®, the best choice for the conveyance of fluid under pressure

PACKAGING TOM PVC-O Class 500											
DN	Pipes/ Palett	Palett/ Truck	Pipes/ Truck	Metres[1]/ Truck	Pallet Width	Pallet Height	Pallet Length	Pallet Weight			
								PN12,5	PN16	PN20	PN25
mm	pipes	palett	pipes	m	mm	mm	mm	kg	kg	kg	kg
90	81	16	1 296	7 711	1 220	670	6 110	-	555	-	680
110	76	12	912	5 426	1 220	850	6 130	715	775	780	1 005
125	60	12	720	4 284	1 220	850	6 135	725	725	795	1 025
140	45	12	540	3 213	1 220	850	6 140	650	655	750	965
160	33	12	396	2 356	1 220	800	6 150	570	625	720	925
200	23	12	276	1 642	1 170	950	6 395	620	680	780	1 005
225	14	16	224	1 333	1 220	700	6 190	480	530	605	780
250	11	12	132	785	1 100	800	6 215	465	515	585	755
315	13	8	104	619	2 200	700	6 260	865	955	1 090	1 410
355	11	6	66	393	2 200	800	6 295	930	1 020	1 170	1 510
400	11	6	66	393	2 400	850	6 325	1 170	1 290	1 480	1 910
450	5	10	50	298	2 200	550	6 330	685	755	860	1 115
500	4	8	32	190	1 950	600	6 335	675	740	850	1 095
630	3	6	18	107	1 950	730	6 410	800	875	1 005	1 300
710	3	6	18	107	2 200	810	6 425	1 010	1 105	1 270	-
800	3	6	18	107	2 400	900	6 425	1 270	1 400	1 605	-
900	2	4	8	48	1 800	1 000	6 480	1 070	1 180	1 425	1 765
1000	2	4	8	48	2 000	1 100	6 515	1 315	1 450	-	-
1200	2	4	8	48	2 400	1 350	6 575	1 885	2 080	-	-

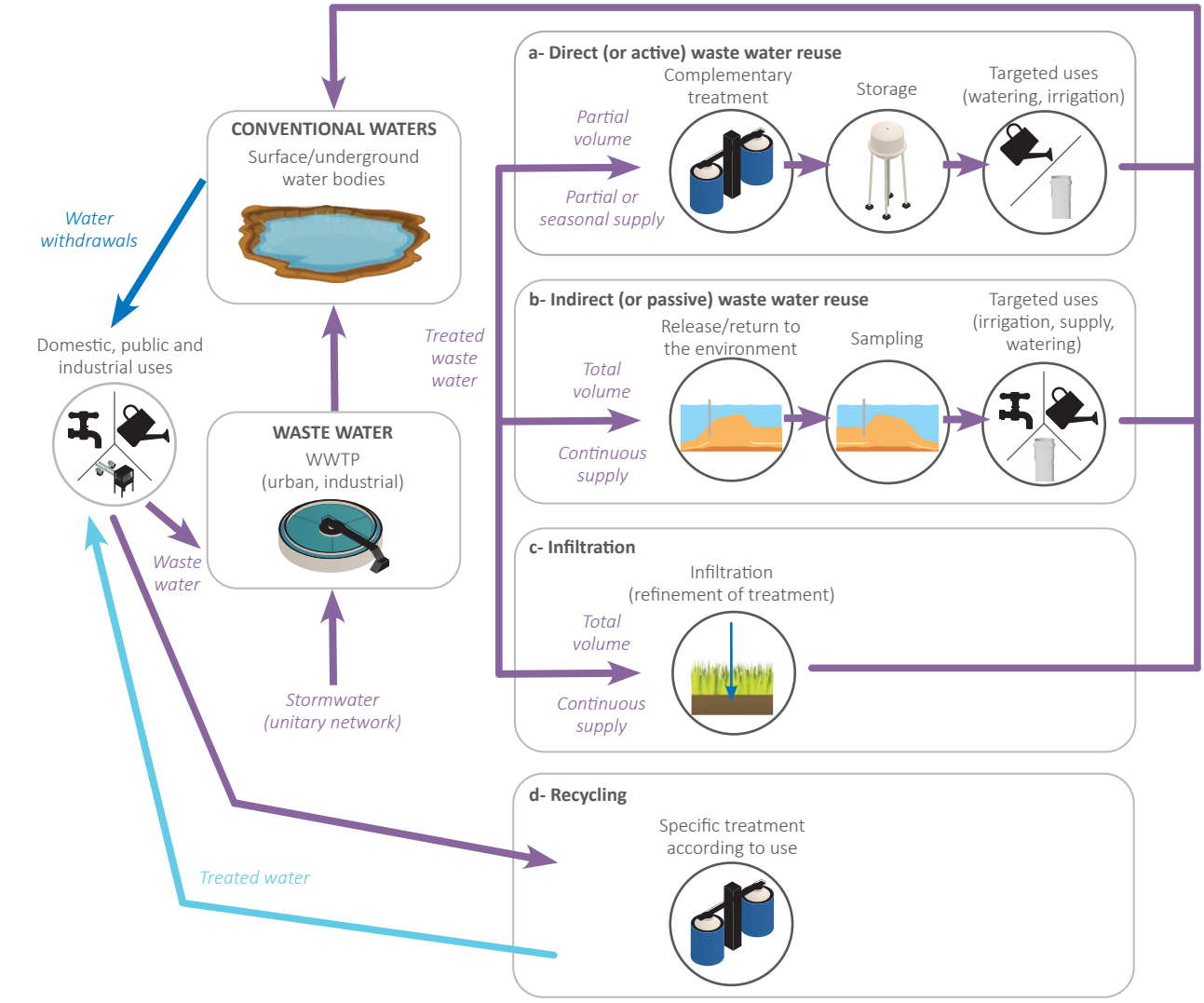
(1) Nominal metres (5.95 metres per pipe). The effective length is the total length minus the length limit marked for the assembly.
Other packagings or lengths, on request.
The combined pallet height shall not exceed 2,550 mm for a standard truck.
In case the load exceeds the height of 2,550 mm, it will be necessary to use a special truck.

Hundreds of kilometers installed worldwide

The **TOM® Class 500** pipe for the transport of reclaimed water is installed in many countries around the world, with more than 200 km only in the Community of Madrid (Spain), but also in Ireland, France, Mexico and many other places in the world. It is **the ideal and sustainable solution for sanitation, discharge, stormwater, industrial water (methanation), water reuse levels in the territory**.
The extraordinary technical advances of the manufacturing system of **Molecor** confer the **TOM®** Oriented PVC pipe significant improvements:

- **Cost efficiency:** Manual handling up to DN350 mm.
- **Natural resources usage optimization:** 100% recyclable.
- **Energy efficiency:** Lower energy consumption throughout the life cycle.
- **Hydraulic capacity:** Between 15% and 40% higher.
- **Hydrostatic resistance:** Class 500, service life of more than 100 years.
- **Water hammer resistance:** Supports exceptionally network openings and closings.
- **Impact resistance:** No crack propagation.
- **Ductility:** Withstands large deformations of the inner diameter.
- **Watertight:** Socket manufactured in the same process as the pipe.
- **Chemical resistance:** No need for special protection or coating.

Differences between direct and indirect waste water reuse, infiltration and recycling



Water cycle | Water resources | Waste water recovery

Video purple TOM

App GEOTOM

TOM calculation

Technical manual

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