MOLECOR

*Smart water*

TOM

# Reclaimed water

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

50 YEAR WARRANTY
TOM PVC-O Pipes





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

• TOM® PVC-Oriented pipe is an exclusive product manufactured using **Molecor's revolutionary technology**, which ensures maximum molecular orientation.

• Is the **best solution for the conveyance of water at medium and high pressure** for irrigation systems, drinking water supply, reuse, industrial or fire protection lines, among other uses. 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:** Optimization of the use of natural resources and 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.

## 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. | medio | min. | medio | min. | medio | min. | medio | min. |
| mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| 90* | 90,0 | 90,3 | 84,8 | 1,6 | 84,3 | 2,0 | 84,3 | 2,5 | 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 | 654,7 | 24,4 |
| 800 | 800,0 | 802,0 | 760,4 | 14,0 | 756,1 | 17,4 | 749,2 | 21,6 | 733,0 | 27,4 |
| 900(1) | 900,0 | 902,7 | 855,4 | 15,7 | 850,6 | 19,6 | 839,5 | 24,3 | 824,1 | 30,9 |
| 1000 | 1000,0 | 1003,0 | 950,5 | 17,5 | 945,1 | 21,7 | 932,8 | 27,0 | 915,6 | 34,3 |
| 1100(1) | 1100,0 | 1103,3 | 1045,5 | - | 1039,6 | - | 1026,1 | - | 1007,2 | - |
| 1200(1) | 1200,0 | 1203,6 | 1140,6 | 21,1 | 1134,1 | 26,2 | 1119,4 | 32,4 | 1098,8 | 41,4 |

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.

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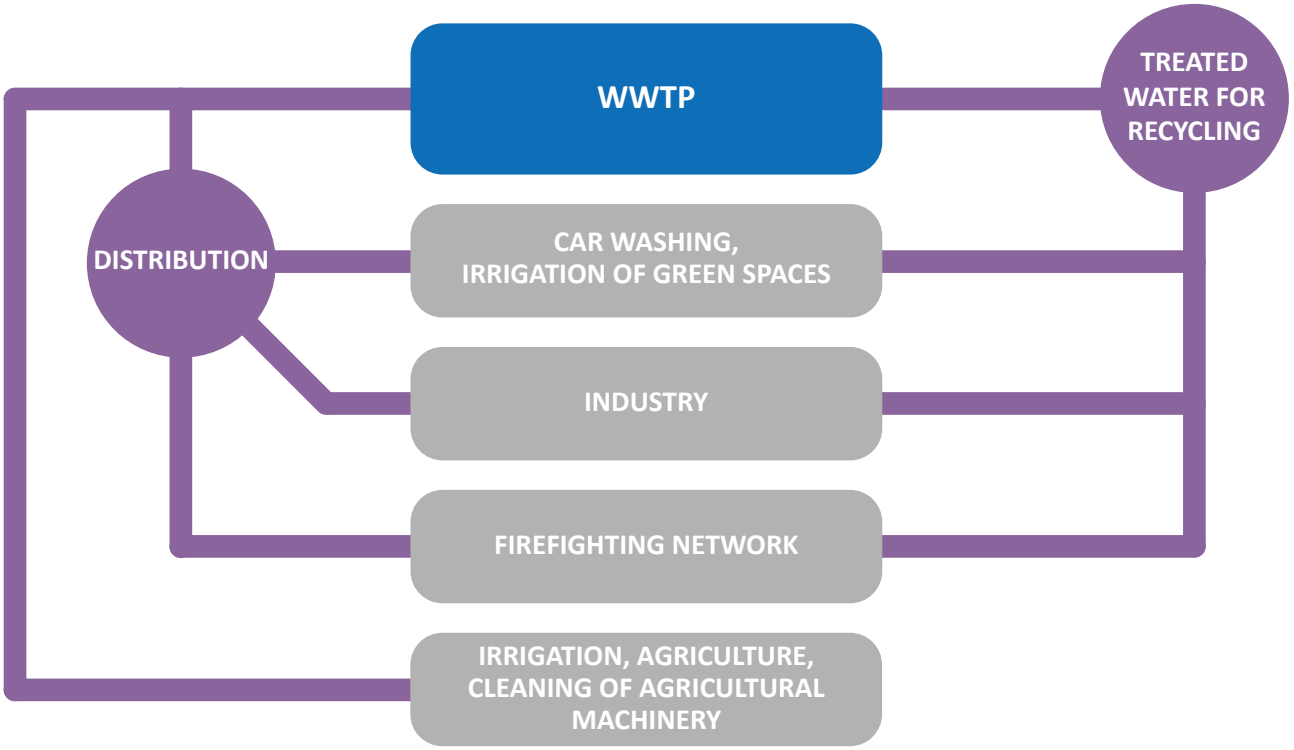
## PACKAGING TOM PVC-O Class 500

| DN | Pipes/ Pallet | Pipes/ Pallet | Pipes/ Truck | Metres [1]/ Truck | Pallet Width | Pallet Height | Pallet Length | Pallet Weight | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PN12,5 | PN16 | PN20 | PN25 |
| mm | pipes | palette | pipes | m | mm | mm | mm | kg | kg | kg | kg |
| 90 | 81 | 16 | 1296 | 7711 | 1220 | 670 | 6110 | 515 | 555 | 560 | 680 |
| 110 | 76 | 12 | 912 | 5426 | 1220 | 850 | 6130 | 715 | 775 | 780 | 1005 |
| 125 | 60 | 12 | 720 | 4284 | 1220 | 850 | 6135 | 725 | 725 | 795 | 1025 |
| 140 | 45 | 12 | 540 | 3213 | 1220 | 850 | 6140 | 650 | 655 | 750 | 965 |
| 160 | 33 | 12 | 396 | 2356 | 1220 | 800 | 6150 | 570 | 625 | 720 | 925 |
| 200 | 23 | 12 | 276 | 1642 | 1170 | 950 | 6395 | 620 | 680 | 780 | 1005 |
| 225 | 14 | 16 | 224 | 1333 | 1220 | 700 | 6190 | 480 | 530 | 605 | 780 |
| 250 | 11 | 12 | 132 | 785 | 1100 | 800 | 6215 | 465 | 515 | 585 | 755 |
| 315 | 13 | 8 | 104 | 619 | 2200 | 700 | 6260 | 865 | 955 | 1090 | 1410 |
| 355 | 11 | 6 | 66 | 393 | 2200 | 800 | 6295 | 930 | 1020 | 1170 | 1510 |
| 400 | 11 | 6 | 66 | 393 | 2400 | 850 | 6325 | 1170 | 1290 | 1480 | 1910 |
| 450 | 5 | 10 | 50 | 298 | 2200 | 550 | 6330 | 685 | 755 | 860 | 1115 |
| 500 | 4 | 8 | 32 | 190 | 1950 | 600 | 6335 | 675 | 740 | 850 | 1095 |
| 630 | 3 | 6 | 18 | 107 | 1950 | 730 | 6410 | 800 | 875 | 1005 | 1300 |
| 710 | 3 | 6 | 18 | 107 | 2200 | 810 | 6425 | 1010 | 1105 | 1270 | 1645 |
| 800 | 3 | 6 | 18 | 107 | 2400 | 900 | 6425 | 1270 | 1400 | 1605 | 2080 |
| 900 | 2 | 4 | 8 | 48 | 1800 | 1000 | 6480 | 1070 | 1180 | 1425 | 1765 |
| 1000 | 2 | 4 | 8 | 48 | 2000 | 1100 | 6515 | 1315 | 1450 | 1670 | 2160 |
| 1100 | 2 | 4 | 8 | 48 | 2200 | 1250 | 6540 | 1585 | 1750 | 2120 | 2630 |
| 1200 | 2 | 4 | 8 | 48 | 2400 | 1350 | 6575 | 1885 | 2080 | 2520 | 3125 |

(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.

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## Hundreds of kilometers installed worldwide

The **TOM®** 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, but also in Ireland, Mexico and many other places in the world.

Available **from DN90 to 1200 mm** with nominal pressures **from PN12.5 to 25 bar**, this **TOM® Class 500 pipe is the ideal and sustainable solution to improve water reuse levels in the territory**.




## Molecor in line with the UN Sustainable Development Goals

Molecor (as a company) and its fittings and pipes (as products) are aligned with the **Sustainable Development Goals (SDGs)** set by the United Nations with the aim of achieving a sustainable future for all. The SDGs are interlinked and address the global challenges we face every day, such as poverty, inequality, climate, environmental degradation, prosperity, peace and justice.

Molecor's main goal is **SDG 6 "Ensure availability and sustainable management of water and sanitation for all"**. The company's activity is developed around two main axes: the development and manufacture of productive, increasingly efficient systems, and the manufacture of PVC pipes and fittings for infrastructure, drainage and building applications.


Ensure access to water and sanitation for all


Ensure access to affordable, reliable, sustainable and modern energy


Build resilient infrastructure, promote sustainable industrialization and foster innovation


Make cities inclusive, safe, resilient, and sustainable


Ensure sustainable consumption and production patterns


Take urgent action to combat climate change and its impacts


Take urgent action to combat climate change and its impacts


Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss


Revitalize the global partnership for sustainable development

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