



# TR6<sup>®</sup>

## Irrigation Pipe



Molecor has developed the first **PN6 oriented pipe**, the new **TR6<sup>®</sup>**, intended for irrigation. This pipe has excellent properties and **stiffness levels superior** to other products available in the market with the same nominal pressure.

Thanks to its excellent physical and mechanical properties, upon analyzing equivalent thicknesses of **TR6<sup>®</sup>** and **PVC-U** PN6 bar pipes, the former have a modulus of **elasticity 15% higher** compared to the latter, which makes the TR6 pipe exhibit higher levels of stiffness.

Nominal Diameter (DN)	90	110	125	140	160	200	250	315	400
Average RCE (kN/m <sup>2</sup> )	7	7	6,5	6	5	5	5	5	5

**TR6<sup>®</sup>** is an **Oriented PVC** pipe with a PN6 working pressure. With the improvements provided by the molecular orientation, it achieves hydrostatic properties superior to those of PVC-U PN6.

Thanks to the orientation process, **TR6<sup>®</sup>** has a much **higher impact resistance** than traditional PVC-U pipes, **up to 2-3 times higher**.

Another of the improved characteristics of **TR6<sup>®</sup>** compared to PVC-U is its **hydraulic resistance**. Thanks to the orientation process, this pipe reaches values of **60MPa** compared to the 45MPa of PVC-U. In addition, the **fatigue behavior** of TR6 is also **higher**.

All **TR6<sup>®</sup>** pipes are manufactured following a strict quality control process that allows the detection of any imperfection that may occur in the extrusion process, guaranteeing the **quality** of the manufactured pipe at all times.



High impact resistance



Resistance to water hammer



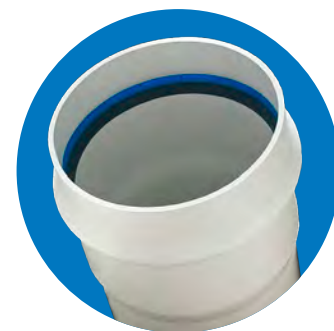
Immune to corrosion

**TR6<sup>®</sup> PVC-O pipes** are **the most sustainable solution** on the market for **irrigation** applications, due to their **lower carbon footprint** as well as lower energy consumption throughout their useful life.



### Product Range

Reference	Nominal Diameter (DN)	Outside Diameter (DE)	Inside Diameter (DI)	Average Thickness (e)	Nominal Pressure (PN)	Length (m)	Seal type
TR6090	90	90	85.2	2.4	6	6	Lip seal with blue PP+EPDM ring
TR6110	110	110	104.1	3.0	6	6	
TR6125	125	125	118.2	3.4	6	6	
TR6140	140	140	132.8	3.6	6	6	
TR6160	160	160	152.1	4.0	6	6	
TR6200	200	200	190.1	5.0	6	6	
TR6250	250	250	237.6	6.2	6	6	
TR6315	315	315	299.4	7.8	6	6	
TR6400	400	400	380.2	9.9	6	6	



TR6<sup>®</sup> PVC-O pipes are supplied in total lengths (including stop-marked length) of 6 meters. Inside diameters may be subject to variation according to manufacturing tolerances.

## Packaging

Reference	Nominal Diameter (DN)	Length (m)	Pallets / Truck	No. Pipes / Pallet	m / Pallet	No. Pipes / Truck	m / Truck
TR6090	90	6	16	81	486	1296	7711
TR6110	110	6	12	76	456	912	5472
TR6125	125	6	12	60	360	720	4320
TR6140	140	6	12	45	270	540	3240
TR6160	160	6	12	33	198	396	2376
TR6200	200	6	12	23	138	276	1656
TR6250	250	6	12	11	66	132	792
TR6315	315	6	8	13	78	104	624
TR6400	400	6	6	11	66	66	396

For other packages or lengths, please contact.

The combined height of the pallets should not exceed 2550 mm for a standard truck to be suitable. If this is exceeded, a Mega truck must be used.

The **better elastic behavior** of TR6® compared to PVC-U allows it to withstand large deformations of the inner diameter while immediately recovering its original shape.

The sealing gasket is composed of a PP ring and a synthetic rubber lip which makes it an integral part of the pipe, preventing it from rolling during assembly and displacement from its location, thus achieving a **complete seal**.



Complete traceability



High flexibility



100% recyclable

The TR6® pipe is manufactured with the technology developed by **Molecor**, which allows **full traceability** of the process guaranteed thanks to the **M.E.S.** (Manufacturing Execution System) process monitoring system with **4.0 connectivity**.

## Quality

All pipes are marked to guarantee traceability:

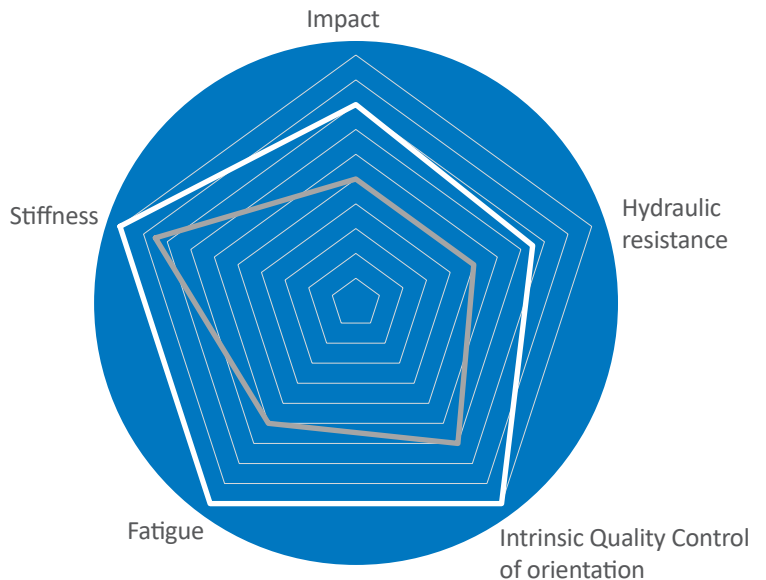
Marked	
Manufacturing company and trademark	MOLECOR TR6
Product certification	In certification phase
Material	PVC - O
Nominal diameter and pressure	DN - PN6
Date - Time - Batch	02/02/2023 11:50 180973
Reference standard	ISO 16422

These data may be subject to variation according to manufacturing tolerances.

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## Comparison TR6® vs PVC-U

TR6® PN6 bar █ PVC-U PN6 bar █



Highest installation rate in m/h



Life expectancy over 100 years



Easy connection



Extremely light weight

Geoposition the pieces of your network with

**GEOTOM**

Download the official app through the QR Code.