

Sustainable water networks

A pipe system's environmental impact depends on its composition and application. Factors that determine efficiency during the entire life cycle of a pipe are mainly: the type of raw material used, the production process, the product finishing and its service life.

PVC-O pipes are shown to be the most eco-friendly solution due to their improved contribution to global

sustainable development, as shown by different studies worldwide, among which it is worth highlighting: Energy consumption and CO₂ emission estimates associated with the production, use and disposal of PVC, HDPE, PP, Cast-iron and Concrete pipes (Polytechnic University of Catalonia) and the PVC-O Environmental Product Declaration TEPPFA (The European Plastics Pipes and Fittings Association).



SUSTAINABILITY

Sustainable water networks designed for maximum preservation of the environment.

BETTER ENVIRONMENTAL FOOTPRINT

Less CO₂ emitted into the atmosphere and behaviour improvement against global warming.

WASTE MANAGEMENT EFFICIENCY

PVC is a **100% recyclable** material that can be reused in the manufacture of other plastic applications.

EFFICIENCY IN THE MANAGEMENT OF NATURAL RESOURCES

Less use of raw material in its manufacture. Only 43% of the PVC composition depends on petroleum.

ENERGY EFFICIENCY

Energy consumption is lower in all phases of the life-cycle: raw material extraction, manufacturing and use.

WATER RESOURCES OPTIMIZATION

The **complete tightness** of the joints and the durability of the pipe against degradations, prevent leakages of channeled water.

100% Aligned with the Sustainable Development Goals of the United Nations, with the aim of achieving a more sustainable future



Moving PVC-O towards circular economy

Oriented PVC (PVC-O) pipes are the greenest solution available on the market, given their lower energy consumption throughout their long life cycle, the lower greenhouse gases emitted into the atmosphere. Therefore, they have a lower Carbon Footprint than alternative materials, and thus a lower impact on climate change.

Additionally, it has also shown that the environmental impact they exhibit, not only in global warming, but on other environmental impacts such as the destruction of the ozone layer, is also inferior to other materials.

For **Molecor**, preserving the environment is an extremely important issue, which is why it has received the Environmental Footprint seal from the Sustainable Life Foundation, calculating the environmental footprint of its TOM® pipes in accordance with the new Recommendation 179/2013CE proposed by the European Commission for the calculation of environmental footprints.

It also holds the **Operation Clean Sweep®** (OCS) certificate of compliance, a recognition that shows the company's commitment to sustainability and the circular economy by avoiding the unintentional emission of pellets into the environment.

