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PVC4Pipes is the ECVM's platform to communicate about the use of PVC in pipe systems in the global market. Our partners come from all parts of the industry's value chain. PVC4Pipes welcomes companies which produce raw materials – PVC resin and additives – and those which manufacture the wide array of PVC pipes and fittings available in today's market, as well as scientific and testing institutes and promotional associations.

# SafeDurable

Recyclable

✔ Sustainable

## Water applications:

- Drinking water
- Sewage and underground drainage
- Soil & waste
- Rainwater
- Hot & cold

### Other applications:

- Cable protection
- Industrial
- Fire sprinklers
- Fittings



#### **PVC FOR ALL APPLICATIONS**

PVC covers all common piping and fitting applications. From transportation of drinking water to advanced fire protection systems, and the fittings needed to connect the pipes, PVC provides the solution.

#### PIPES FOR A CENTURY - AND BEYOND

The first PVC pipes were installed over 80 years ago, most of which are still in service today. Recent studies of excavated 50-year old pipes showed no deterioration and that they were fit for at least another 50 years. The expected lifespan of underground PVC piping systems is 100 years or more.



#### PVC PIPES CAN BE RECYCLED AGAIN AND AGAIN

Studies show that PVC pipes can be recycled multiple times without losing their technical properties. In 2018, more than 80,000 tonnes of PVC pipes and fittings were recycled through the VinylPlus programme. Recycled PVC's primary energy demand is up to 90% lower than virgin PVC production. For each kilo of recycled PVC, close to two kilos of CO<sub>2</sub> are saved.







### PVC recycled within the Vinyl 2010 and VinylPlus frameworks

#### ENVIRONMENTAL PERFORMANCE

PVC pipes are made from low-carbon polymers; they are light-weight, which means less energy is used when transported; they last long with a minimum of maintenance and are easily recyclable. PVC pipes thus have clear environmental advantages over other materials. The good environmental performance of PVC pipes is confirmed by independent LCA (Life Cycle Analysis) studies: PVC pipes are at least equal to alternative products, and in many cases show better results for total energy consumption,  $CO_2$  emissions and failures. Moreover, the PVC industry is committed to continuously reduce its greenhouse gas emissions and energy consumption.





PVC has been a popular material for construction applications for decades due to its physical and technical properties which provide excellent cost-performance advantages





## PVC pipes show a much lower failure rate than other materials

Comparison of Water Pipe Failure Rates in USA & Canada



(Source: "Water Main Break Rates in the U.S and Canada: A Comprehensive Study, April 2012," Utah State University, Buried Structures Laboratory)

## ec√m

**ECVM** (The European Council of Vinyl Manufacturers - www.pvc.org) is the organisation representing the six leading European PVC resin manufacturers, accounting for about 75% of the PVC resins produced in Europe.

A founding member of VinylPlus®, ECVM is committed to sustainable development, and to address and promote health, safety and environmental best practices over the PVC life cycle.



### A TODAY'S MATERIAL FOR THE FUTURE

Polyvinyl chloride, or PVC, is one of the most widely used polymers in the world. Because of its versatility, PVC is used extensively in a broad range of industrial, technical and everyday applications from pipes to blood bags. PVC is intrinsically a low carbon plastic: 57% of its molecular weight is chlorine derived from common salt, 5% is hydrogen and 38% is carbon. PVC also consumes less primary energy in the manufacturing phase than alternative materials. Recyclability is another key characteristic of PVC and the PVC industry is committed to collect as much PVC waste as possible. Since 2000, over 5 million tonnes of PVC have been recycled in Europe through VinylPlus, the Voluntary Commitment to sustainable development of the European PVC industry. The Commitment also resulted in the replacement of lead-based stabilisers for PVC applications in the EU-28 by the end of 2015.

## 10 key reasons to choose PVC pipes



Ercros, INOVYN, Shin-Etsu/Cires, VESTOLIT, Vinnolit, Vynova

ESPA (European Stabiliser Producers

Machinery producers

CPPA, KRV, PVC Pipe Association,

Communication bodies AGPU, API, PVC Forum Italia, PVCH

Becetel, KIWA, LKT TGM



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