mondorevive®

Mondoplastico evolution

PVC

CHOOSE CONSCIOUSLY

CHOOSE CONSCIOUSLY, CHOOSE PVC

DISCOVER WITH US WHY

PVC products contribute to the well-being of our society in **key sectors** such as construction, medical devices, electronics, food, energy, transport, sport and leisure.

As part of the **European PVC industry** and a **VinylPlus®** partner, we are strongly committed to improving the circularity and sustainability of PVC products throughout their entire life cycle.

Discover with us its advantages, not only technical and economic, but also environmental.

9 GOOD REASONS TO CHOOSE PVC

1. **PVC** is a **safe** and **inert** material
2. **PVC** production is **safe for people** and the **environment**
3. **PVC** is the only plastic not produced entirely from **fossil raw materials**
4. **PVC** films consume **less energy**
5. **PVC** films emit fewer **greenhouse gases**
6. the environmental impact of **PVC** is entirely comparable to that of **other polymers**
7. **PVC** can be thermally **recovered** without problems
8. **PVC** is a **recyclable** and **recycled** material
9. **PVC** has a **European** sustainable development programme

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PVC IS A SAFE AND INERT MATERIAL

PVC (polymer) is a safe and inert material, classified as a '**non-hazardous substance**'.

PVC films produced in **Europe**, according to the criteria of **VinylPlus®** and **PVC Forum Italia**, do not contain substances classified as hazardous (SVHC).

SOURCES

See the European REACH Regulation on chemicals, Regulation (EC) No 1272/2008 and Directive 67/548/EEC

PVC PRODUCTION IS SAFE FOR PEOPLE AND THE ENVIRONMENT

All PVC resin producers that are members of ECVM (European Council of Vinyl Manufacturers) have signed a **Self-Regulation Charter** imposing occupational **safety rules** and **extremely** stringent emission limits.

ECHA (European Chemicals Agency) itself has confirmed that the measures implemented for PVC production are adequate and effective.

SOURCES

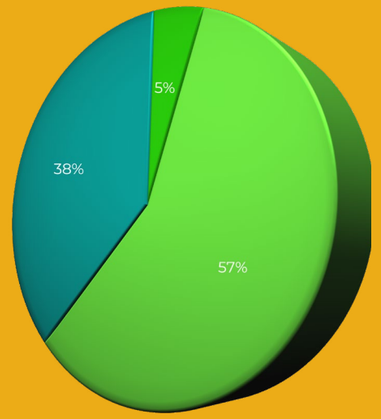
https://pvc.org/sustainability/industry-responsible-care/ecvm-charter/
European Chemicals Agency (2023). Investigation report on PVC and PVC additives, p.5 https://echa.europa.eu/documents/10162/17233/rest_pvc_ investigation_report_en.pdf

PVC IS THE ONLY PLASTIC NOT PRODUCED ENTIRELY FROM FOSSIL RAW MATERIALS

PVC resin consists of:
57% chlorine derived from **common salt**;
5% hydrogen;
and only **38% ethylene**, derived from **oil**.

Moreover, a "bio-attributed" PVC resin is already available on the market, i.e. produced with ethylene from natural and non-fossil sources.

SOURCES
All of pvc https://www.polimerica.it/articolo.asp?id=8208



GER energy requirement in the production and processing phases expressed in MJ/kg of polymer produced

PVC FILMS CONSUME LESS ENERGY

A life cycle study of films and calendered products commissioned by PVC Forum Italia showed that **PVC consumes less energy** for its **production** and **processing** than other plastics.

SOURCES
Publication "The sustainability of PVC Films" by PVC Forum Italia

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PVC FILMS EMIT FEWER GREENHOUSE GASES

A life cycle study of films and calendered products commissioned by PVC Forum Italia showed that **PVC produces fewer greenhouse gases** for its production and processing **than other plastics**.

SOURCES
Publication "The sustainability of PVC Films" by PVC Forum Italia

THE ENVIRONMENTAL IMPACT OF PVC IS ENTIRELY COMPARABLE TO THAT OF OTHER POLYMERS

The eco-profiles published by Plastics Europe for the various polymers show that **each plastic may present advantages and disadvantages for specific environmental parameters.**

These eco-profiles highlight that the environmental impact of PVC is, on average, entirely comparable to that of other polymers.

PVC IS A RECYCLABLE AND RECYCLED MATERIAL

PVC is a recyclable material and can be recycled many times without losing its essential properties.

OUR CONTRIBUTION

MondoSD, a company of the Mondorevive Group, **also recovers, regenerates and recycles PVC.**

Mondo SD certifies that the PVC waste delivered has been **tracked and transformed** into Secondary Raw Material, in accordance with the regulations in force.

PVC CAN BE THERMALLY RECOVERED WITHOUT PROBLEMS

Contrary to common belief, and as also confirmed by ECHA, **PVC waste does NOT play a significant role in the formation of dioxins and furans** in modern incinerators.

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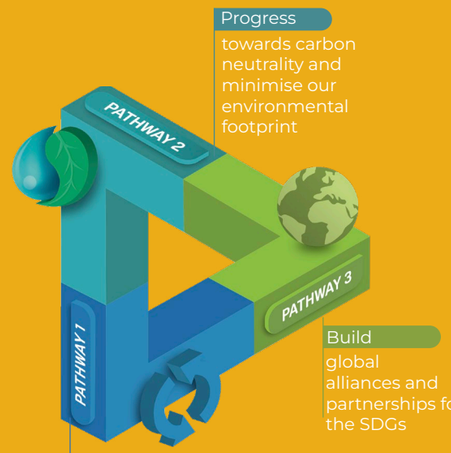
PVC HAS A EUROPEAN SUSTAINABLE DEVELOPMENT PROGRAMME

Since 2011 Mondorevive has been a VinylPlus® partner.

Through **VinylPlus**, the European PVC industry is creating a long-term sustainability model for the entire PVC supply chain, improving the **sustainability** and **circularity** of PVC products and their contribution to a **sustainable society**.

SOURCES https://www.vinylplus.eu/about-us/vinylplus-2030-commitment/

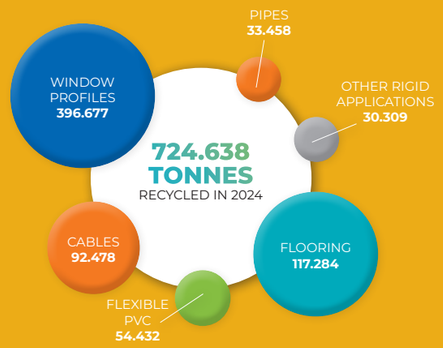


Progress
towards carbon neutrality and minimise our environmental footprint

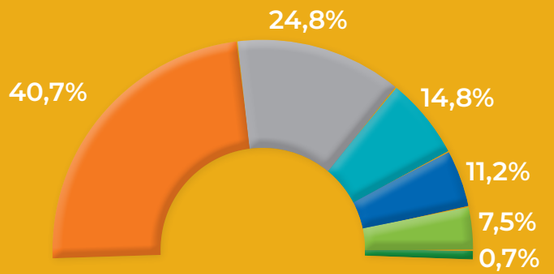
Build
global alliances and partnerships for the SDGs

Increase
the circularity of the PVC supply chain

RECYCLED PVC WITHIN THE SCOPE OF VINYLPLUS



USE OF RECYCLED PVC IN 2024



- windows and profiles
- traffic management
- other applications for B&C
- reels and cores (0.2%)
- flooring
- pipes
- other
- equipment for horticulture and barns (0.2%)

FROM 2000

9,5 M
tonnes of recycled PVC

19,1 M
tonnes of CO_2 saved isparmiate

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caltek®
Mondorevive Group

mondosd®
Sustainable development
Mondorevive Group

V CARD

VIDEO

LINKEDIN

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