

PVC recycling, an asset for the Industry



From upstream to downstream

Purchasing only the best

PVC waste purchase

SUEZ buys off-cuts of rigid PVC and collects used PVC from dismantling to offer it a second life.

• Collection

- PVC waste is collected directly at the production sites using 3 adapted types of containers:
- big bags: 1 to 2 m³ capacity
- metal boxes (can be foldable): 1 to 3 m³ capacity
- containers and moving-floor trailers: 30 to 90 m³ capacity

Materials expertise

The various types of PVC collected will have different uses according to their properties. To determine the best way to use the materials, we perform tests in our factory lab.

Our experience and tools allow us to process the materials and separate out pollutants to keep only the best. We therefore offer quality recycled products for a wide range of technological uses.

Our Suppliers

- Window frame producers
- Panel manufacturers (ex: protection and cladding for hospital hallways)
- PVC ducting manufacturers
- Furniture manufacturers



Industrial and technological uses

The reference products sold by SUEZ allow industrial corporations to manufacture new products, namely in the fields of construction and agriculture.

For the construction industry

Windows, shutters, door casings, line pipes, cladding, deck boards, construction parts for garages, basement, roof lathing, garden doors, garden sheds...



Some of the site's references have been approved by the CSTB for use in window profiles.

For agriculture

Line pipes, cladding, insulated doors, fencing, patio planks, construction parts for garages, basements, roof battens, garden doors, garden sheds, etc.



FIND OUT MORE...

The main technical characteristics of our recycled raw materials are detailed in our data sheets.



MPR - Matières Premières de Recyclage Plastique
MPR - Plastic Secondary Raw Materials



SUEZ markets its own reference products for use by industrial corporations in extrusion or co-extrusion.

They are divided into three categories:

- the **NEXTPRO®** range (PVC granules);
- the **NEXTUB®** range (micronised PVC).



Solutions at the heart of circular economy issues

Quality certified recycled products

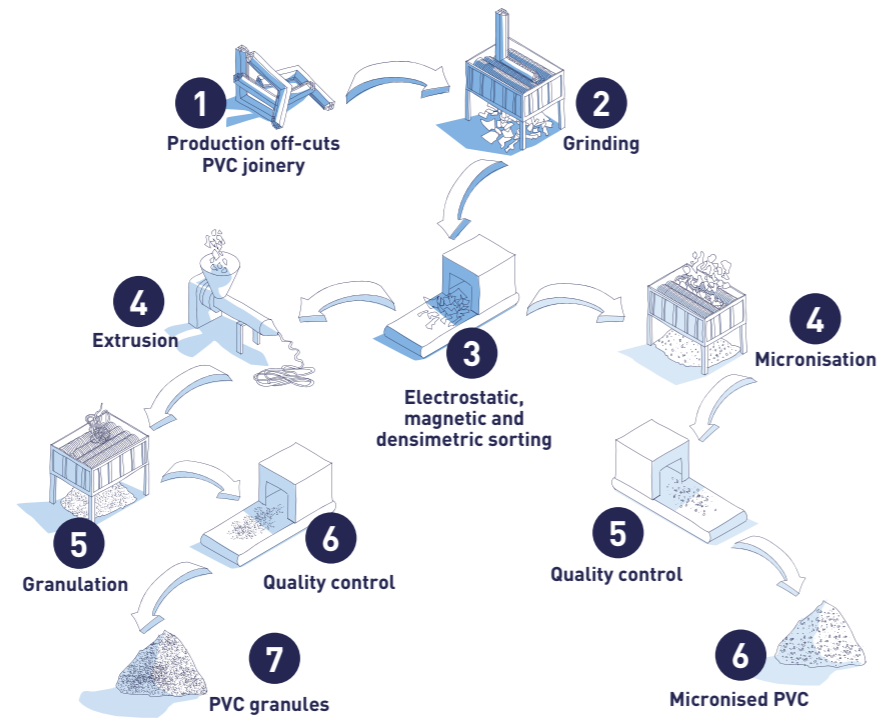
Sorting

The different types of PVC collected are sorted according to their characteristics to prepare them and recycle them as secondary raw materials.

To be reused by industrial corporations, the PVC collected may be turned into various ready-to-use products via three main techniques: grinding, micronisation and granulation.

International commercialisation

SUEZ markets secondary raw materials from PVC recycling to industrial corporations in France and internationally that integrate them into their production chain.



An internal laboratory to certify products

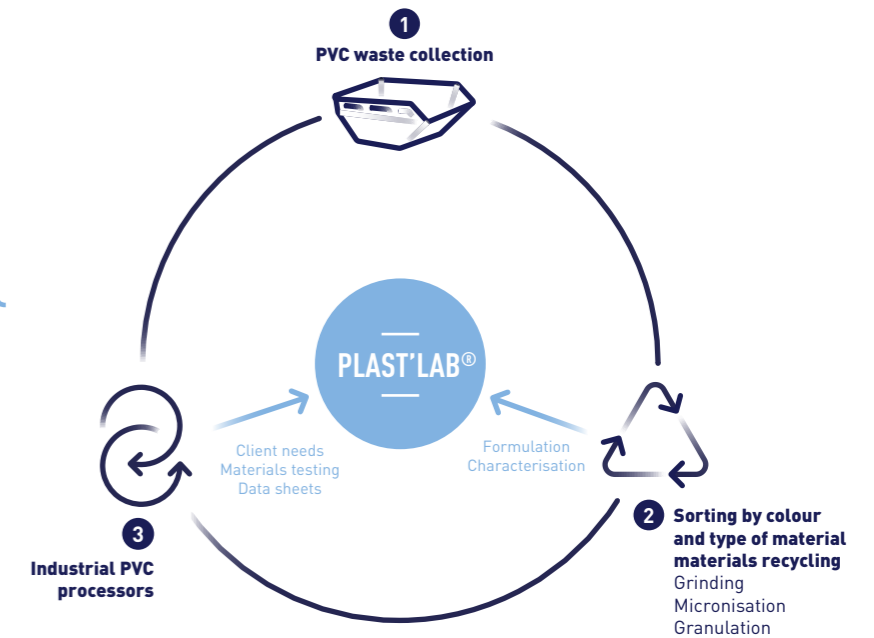
Each batch of material that enters the processing site undergoes visual inspection and random core sampling. To provide high-quality products, the materials are then checked further and go through different steps: granulometry, L.A.B check, density, Vicat hardness and flexural modulus.

SUEZ at the heart of your environmental issues

The SUEZ Research & Development support laboratory: **PLAST'LAB®**

With state-of-the-art techniques for the characterisation of polymers and additives:

- DSC (differential scanning calorimetry)
- FTIR (Fourier-transform infrared spectroscopy)
- TGA (thermogravimetric analysis)
- X-ray fluorescence...
- Various techniques to characterise mechanical properties
- Formulation laboratory...



> **STRENGTHENING TRUST**
in recycled raw materials among converters



> **MAINTAINING DIALOGUE**
with users of recycled raw materials



> **DEVELOPING**
the recycled raw materials of tomorrow



PVC recycling solutions

Since 2000, SUEZ has had one of the first industrial units specialised in collecting, processing and recovering PVC (polyvinyl chloride) waste from different industrial sectors (PVC door and window manufacturers, construction, the extrusion and injection industries, etc.), located near Le Mans.



⇒ KEY FIGURES

1
unique **know-how**
in France

1 capacity of
18,000
tons per year

2
products
lines

1
on-site laboratory
dedicated to quality

Environmental and societal commitment

RecyClass **recoviny!** plus



THE ⊕ POINTS

Belonging to a large group

SUEZ brings global solutions in terms of the management and recovery of all types of waste.

Traceability guarantee

From collection to marketing, SUEZ guarantees the traceability of the products throughout the process.

A full-coverage network

SUEZ relies on a large collection and transport network to ensure extensive nationwide coverage.

Tailor-made products to meet customer needs

SUEZ can offer tailor-made solutions to meet customer demands: regeneration of products to be re-used in customer's process or custom-made products to meet demand, for example colouration.



LE SAVIEZ-VOUS ?

When compared with one tonne of virgin material, the production of one tonne of recycled PVC consumes:

9 times less energy

2,6 t eqCO₂ less

or more than 11 round-trip flights between Paris and Marseille

In 2022,

810 000
tons of recycled PVC in Europe

108 000
tons of recycled PVC in France

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