



Virtucycle®
ARKEMA

A Virtuous Program for Specialty Polymer Recycling



THE ARKEMA OFFER

PARTIALLY RECYCLED ADVANCED
MATERIALS DESIGNED TO
SUSTAINABLY MEET THE CHALLENGES
OF AN EVOLVING WORLD

A VIRTUOUS PARTNERSHIP PROGRAM

Arkema is the first fully integrated high performance polymer manufacturer **offering both bio-based and recycled materials.**

Arkema wants to work with our customers on each side of the supply chain – those who want to recycle their polymers, and those who wish to purchase partially recycled grades.

Our focus is on **polyamide 11 and polyamide 12 resins, PEBA elastomers, and PVDF fluoropolymers.**

With a long history at Agiplast recycling center, Arkema supports your recycling project with its global collection service offer and offers partially recycled grades with a more favorable LCA profile.

The time is now.



Today's tubing, clothing, sunglasses and running shoes become tomorrow's ski boots, luggage, helmets, and storage tanks. No compromise on performance!

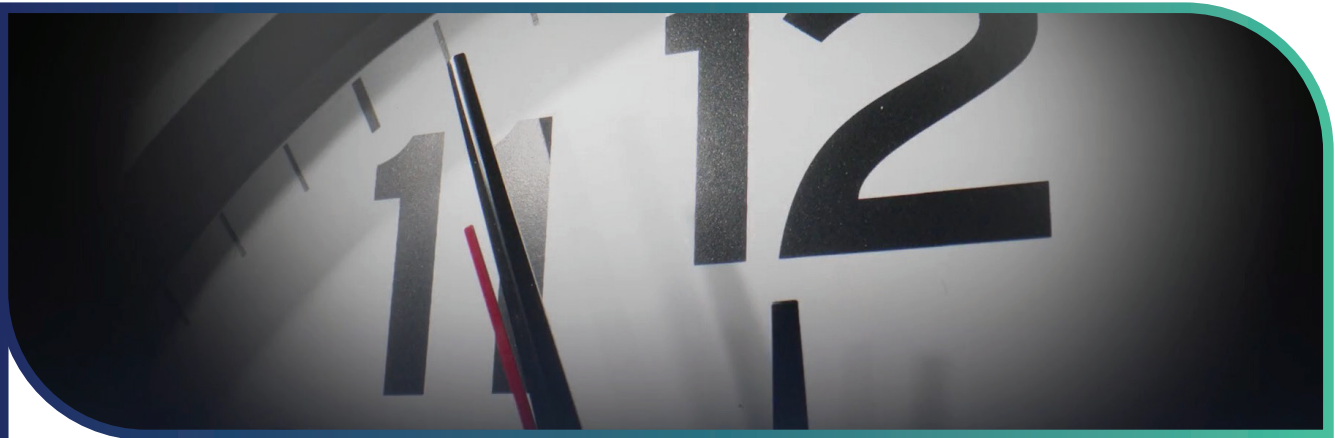
WE RECYCLE ADVANCED PLASTICS

THE TIME IS NOW

In order for the planet to deliver on commitments required to meet the **Paris accord** goals, a worldwide effort will be required to lower climate change and reduce greenhouse gases.

Each year, the world produces some 380 million tons of plastic. **OECD reports that only about 10% of this volume is recycled.**

Among **high performance** plastics, the percentage is even lower. However, these advanced materials, often designed for their durability, are sometimes among the **best candidates** for repeated **mechanical recycling**. The time is now to step up.



Step into the loop and watch the Virtucycle® Program video!

<https://ark.ma/VirtucycleVideo>

What is the Virtucycle® program?

The Virtucycle® program is a partnership program offered to Arkema's high performance polymers customers and downstream users.

The program enables our partners to "step into the loop" by providing polymer for reprocessing, or to source new materials with a minimum recycled content and no compromise in performance.



ARKEMA'S EXPERTISE: 3 AXIS TO SUPPORT PARTNERS TO CLOSE THE LOOP

ECO-DESIGN EXPERTISE

Arkema expertise to support customers to use high-performance materials and to develop **eco-designed materials, able to be recycled.**



RECYCLING ANALYSIS

Arkema has dedicated expert scientists to meticulously analyze the raw material and recycled polymers to ensure the highest quality.

RECYCLING & RECYCLED OFFER

As compounding experts in recycling advanced materials, Arkema ensures **no compromise in performance** by providing polymers for reprocessing.



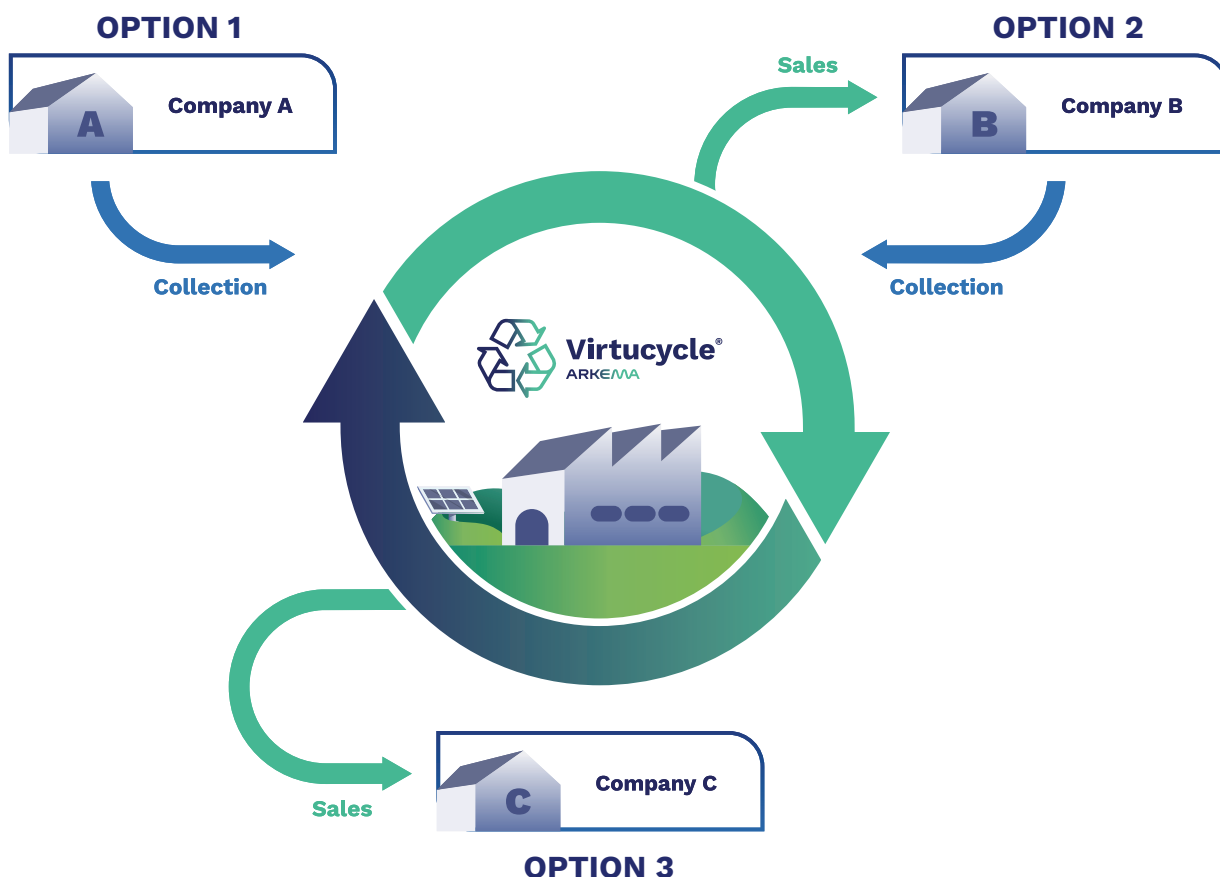
ENABLING A DURABLE WORLD

Single use plastics have quickly become the “face” of the problem concerning plastic waste – in the soil, in the oceans, on the streets – the throwaway society has created a monster.

The time is now to enable a **durable society instead of a disposable society** – to embrace longer service life, continuous use, and re-use/recycling.

Arkema's Virtucycle® program is designed to help our customers in achieving this goal by taking advantage of the fact that our high performance polyamide and fluoropolymer resins are ideally suited to repeated cycles of mechanical recycling in combination with various levels of virgin material to **ensure premium performance and lower climate change impact**.

OUR OFFER ADAPTED TO YOUR BUSINESS NEEDS



- We can collect pre-consumer materials and post-consumer materials to be recycled in advanced materials
- We can provide recycled advanced materials
- We can collect and provide recycled advanced materials in an open, closed or semi-closed loop model.

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