

Nature Reborn



Brochure

ABOUT

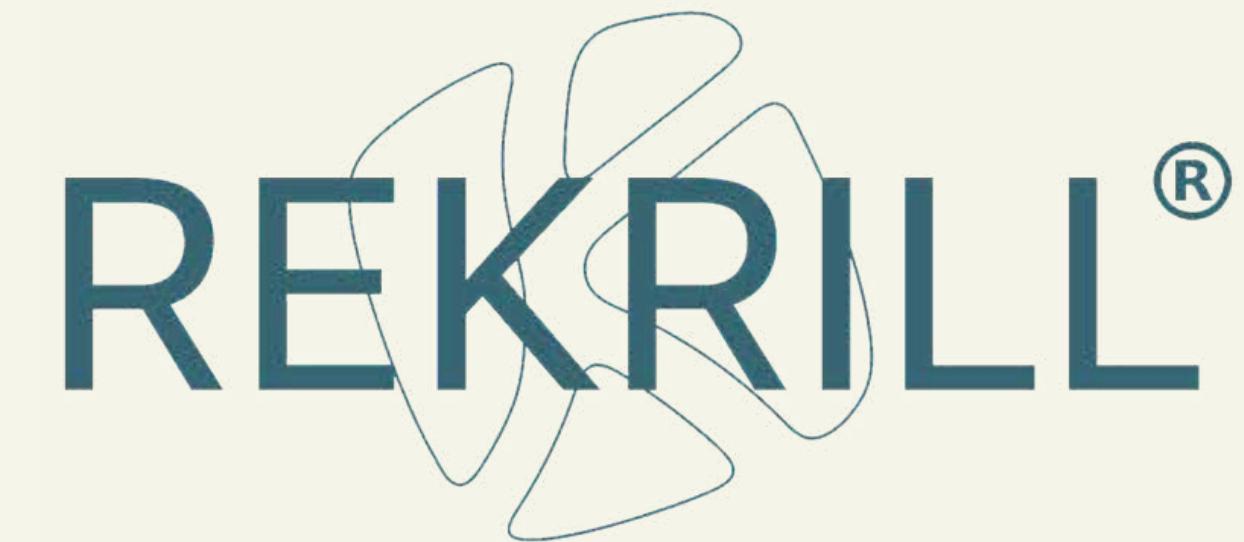
Krill Design is an innovative Italian SME that develops sustainable materials from food industry by-products, exploiting their untapped potential.

Thanks to **patented technology**, we transform these resources into **REKRILL®, a bio-based polymer available in pellet form** and, where required, as powders, sheets or bars.

A concrete alternative to fossil-based plastics, **REKRILL® is designed for use in industrial processes** and for brands that choose sustainability as a lever for innovation and responsibility.



Krill Design bridges the gap by **transforming agro-food by-products into new raw materials** for sustainable production.



WHAT IS REKRILL® ?

patent biodegradable and compostable material with plastic-like technical characteristics, **marketed in form of pellets**, but with very natural aesthetic and sensory characteristics. Both the origin of the by-product and the texture of the material can be **tailored to your needs**.

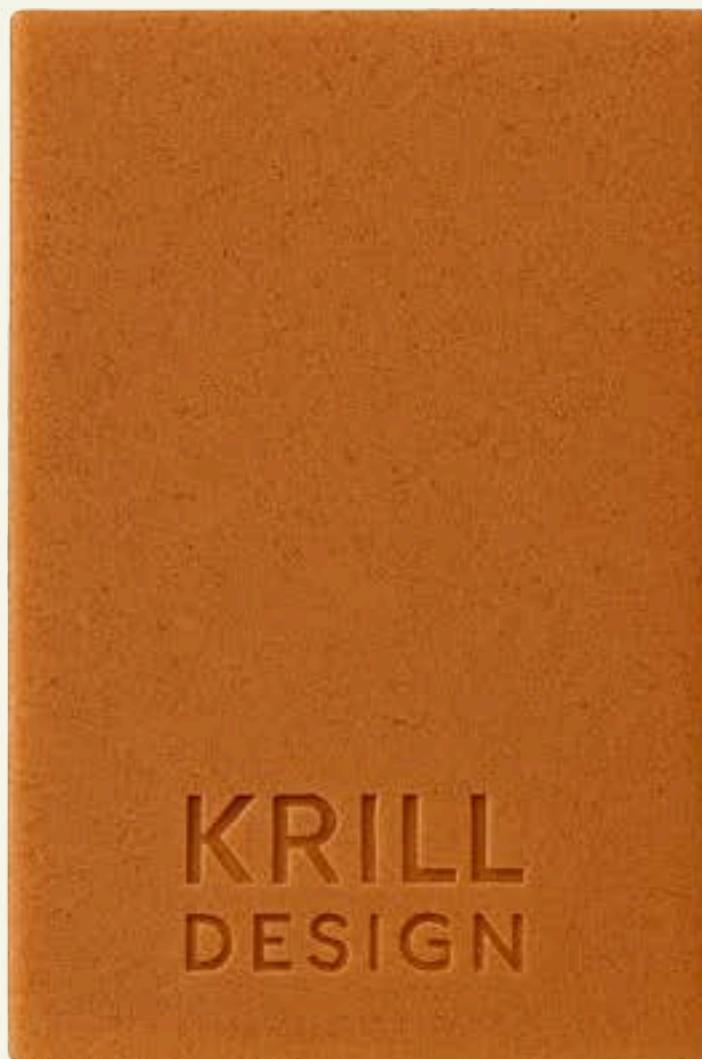


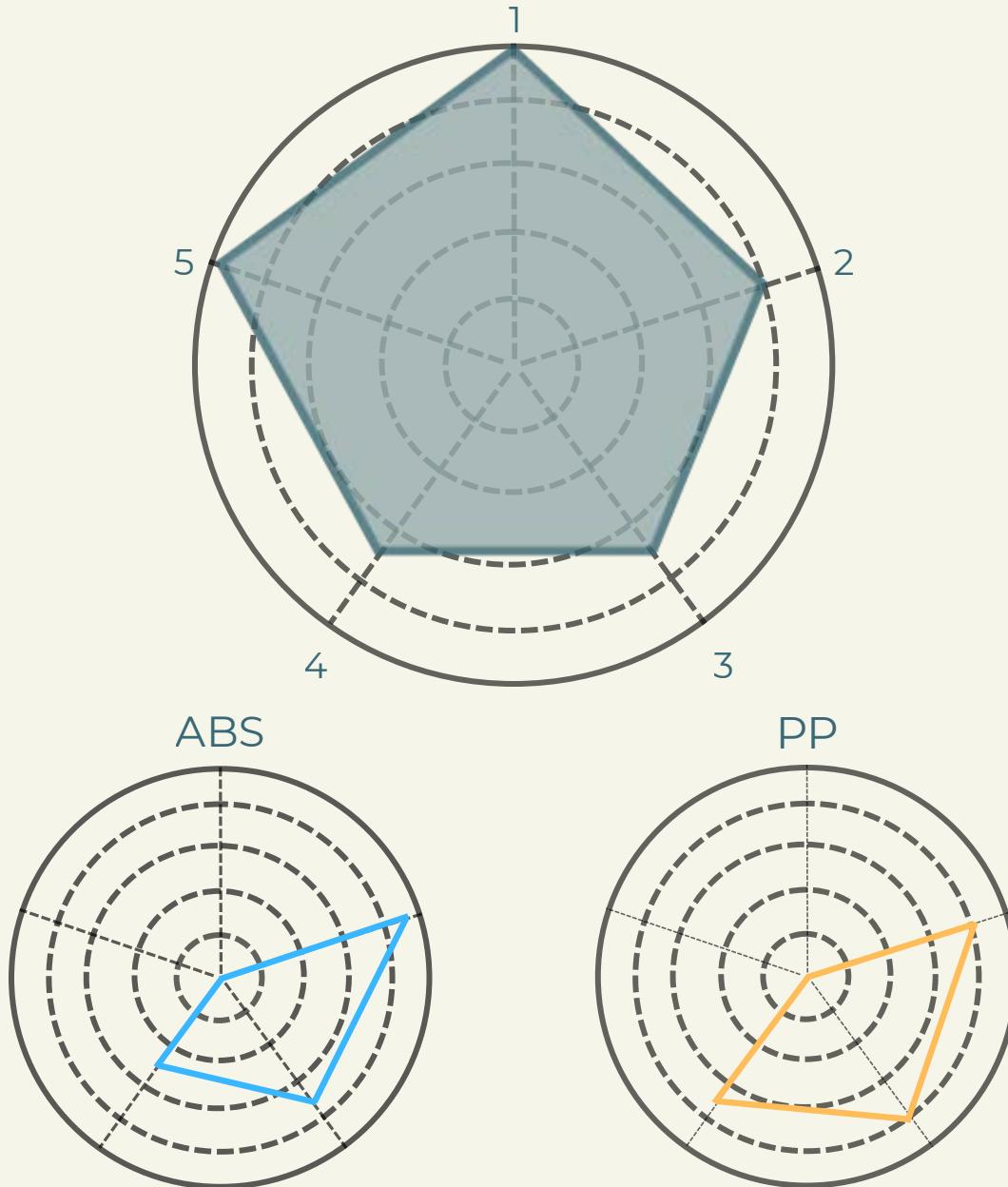
AESTHETIC FEATURES

These REKRILL® sample tiles showcase the **material's versatility, both in texture and in origin.**

Each tile is made using a **different by-product** (e.g. coffee, orange peel, eggshell, etc.) and processed with **varying levels of granularity**. This allows you to see and feel how REKRILL® can adapt its aesthetics, color tones, and surface texture depending on your creative or technical needs.

Whether you're looking for a fine, smooth finish or a rougher, more expressive texture you can shape your material to reflect your brand, your story, and your design vision.





1 bio-based

2 mechanical resistance

3 thermal resistance

4 flexibility

5 compostability

TECHNICAL CHARACTERISTICS

REKRILL® is **fully compatible with traditional plastic processing equipment**, no switching costs, no retooling needed.

Rekrill® is a family of versatile biopolymers developed to replace conventional materials such as PP and ABS across a wide range of applications. While its performance is comparable to these polymers, its potential is not limited to them: ongoing formulation experiments are enabling Rekrill® to exhibit properties similar to other plastic materials such as HIPS, PET, PVC, PC, HDPE, further expanding its range of possible applications

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Each formulation offers different technical properties, making it suitable for injection molding, roto molding, 3D printing and potentially applicable to other processes such as blow molding, thermoforming and film extrusion.

Rekrill® can also be milled, polished, sanded and processed using conventional manufacturing techniques, while delivering excellent functional and aesthetic performance.

SECTORS OF APPLICATION



ELECTRONICS

- leaf appliances shells
- leaf cover plates
- leaf components



HOUSEHOLD

- leaf furnishings
- leaf chairs and seats
- leaf lamps



FASHION

- leaf buttons
- leaf hangers
- leaf buckles



PREMIUM PACKS

- leaf cosmetics jars
- leaf perfume containers
- leaf luxury packaging



OTHER

- leaf toys
- leaf pet objects
- leaf agricultural uses

R&D AND OUR PRODUCTION

We have a state-of-the-art **Research and Development laboratory**, staffed by five researchers, which allows us to **continuously improve our materials and develop new ones**, including **customised solutions requested by our customers to enhance their production residues** (including industrial, not just agri-food) in line with circular economy projects.

But Krill is more than innovation, **we're built for production**. With a **3500 m² production facility** integrating extrusion, R&D, and design, and an annual production capacity of **4,000 tons/year**, we're ready to scale with you.



LABORATORY
R&D by specialised researchers and chemists



PRODUCTION FACILITY:
3500m²



PRODUCTION CAPACITY:
4000 tons/year

SUPPLY CHAIN

At the heart of our production model is an **upstream value chain built on strong partnerships**. We source a **variety of by-products**, from coffee grounds to orange peels and hazelnut shells, exclusively **from carefully selected, high-value suppliers**.

These long-standing collaborations ensure **consistent, quality feedstock for our process**. Starting here, with materials that would otherwise go to waste, **we transform them into Rekrill®, our innovative biopolymer**.

Our partners, represented on the side, are more than suppliers, they are part of a shared journey toward greater sustainability and innovation.



EARLY ADOPTERS



ALESSI

qeeboo

calligaris 

SLIDE [®]

LUMSON
COSMETIC PACKAGING INDUSTRIES

 **Iartigiana**
RESINPLAST ARTDESIGN & INDUSTRY

REKRILL® IS A STRATEGIC CHOICE, NOT JUST A NEW INNOVATIVE MATERIAL

Choosing **REKRILL® is more than a material decision**, it's **a strategic move** that enhances your brand identity, brings measurable circularity, and **acts as a key market differentiator**.

In an era where eco-conscious consumers demand proof over promises, **REKRILL® embeds circularity and CO₂ reduction directly into your products**, a tangible value reflected in your sustainability report and visible across your brand narrative.

This isn't just about compliance, **it's about positioning**. Integrating REKRILL® signals your role as an early adopter of responsible design, giving your brand a future-facing edge and fueling high-impact, authentic storytelling. It tells your stakeholders and your audience that you don't just follow trends, **you lead transformation**.



LEAVE YOUR IMPRINT

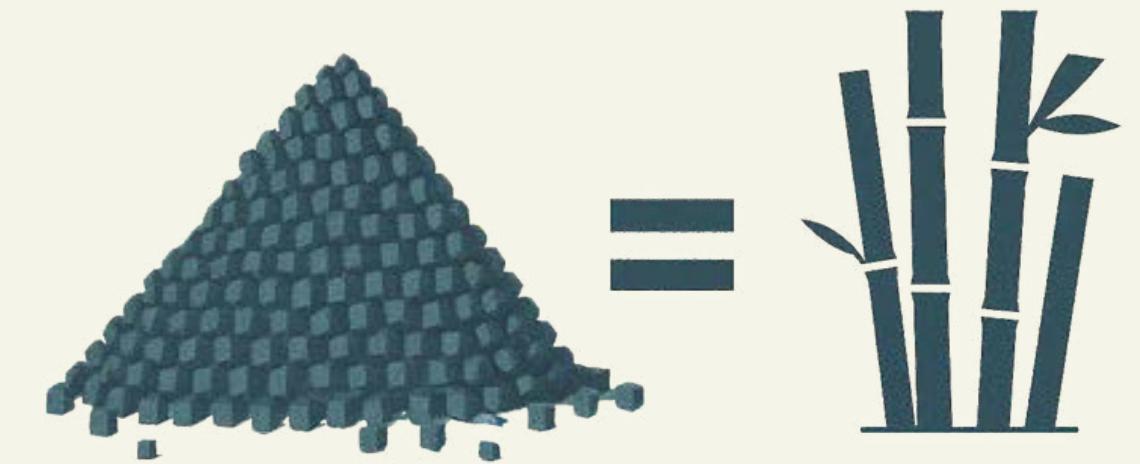
IMPROVE YOUR IMPACT WITH REKRILL®

By using REKRILL®, you've already made a difference.

You've **reduced CO₂ emissions by up to 67%** for every kilo compared to conventional plastics.

You've chosen a **material that's 100% microplastic-free**, leaving no harmful residues behind.

And you've embraced a solution that's **fully compostable in marine environments**, designed to disappear without trace.



Just 10 tons of REKRILL® have the same CO₂ reduction impact as one hectare of bamboo forest.

Krill design pursues 7 of the sustainable development goals*



SUSTAINABLE
DEVELOPMENT
GOALS

*17 Sustainable Goals Agenda **2030 United Nations**

AWARDS

We bring together design, material science, and manufacturing under one roof, to deliver reliable, scalable, high-impact solutions.

Recognized as a Best Performer in the Circular Economy (Confindustria 2022), selected for the ADI Design Index 2022, winner of the Sustainable Development Prize 2022, and proud member of ELITE.



Best Performer of the Circular Economy 2022 | Confindustria



Sustainable Development Award 2022 Foundation for Sustainable Development



OUR STRATEGIC PARTNERS



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