ProfiMed

NYLON PA11

DURABLE, SUSTAINABLE, UNIQUE.

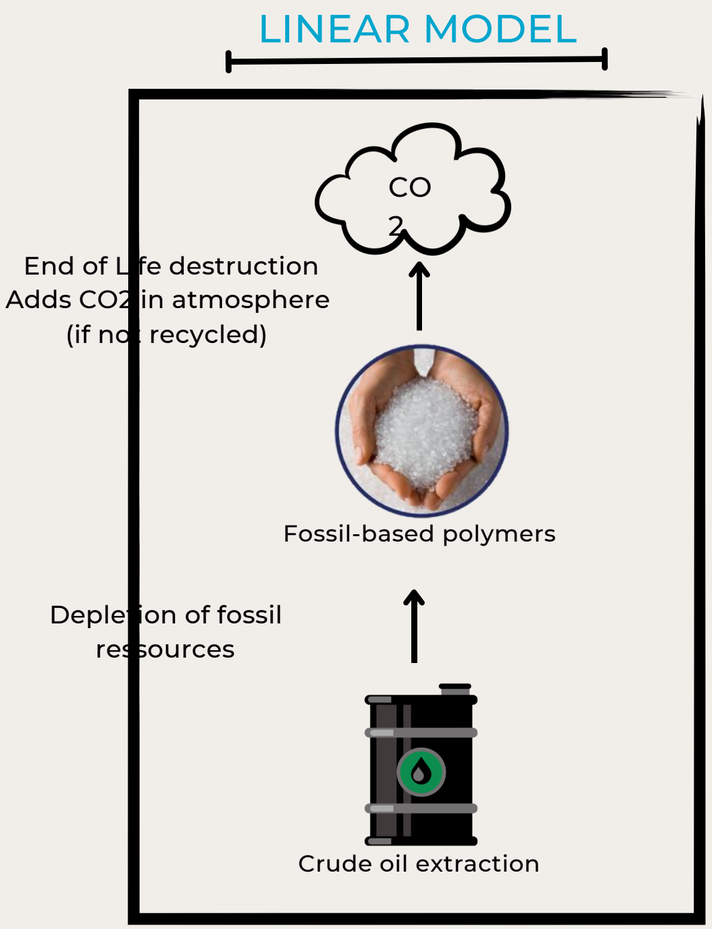
A LITTLE BIT OF STORY: FROM CASTOR PLANT TO THE FIBER

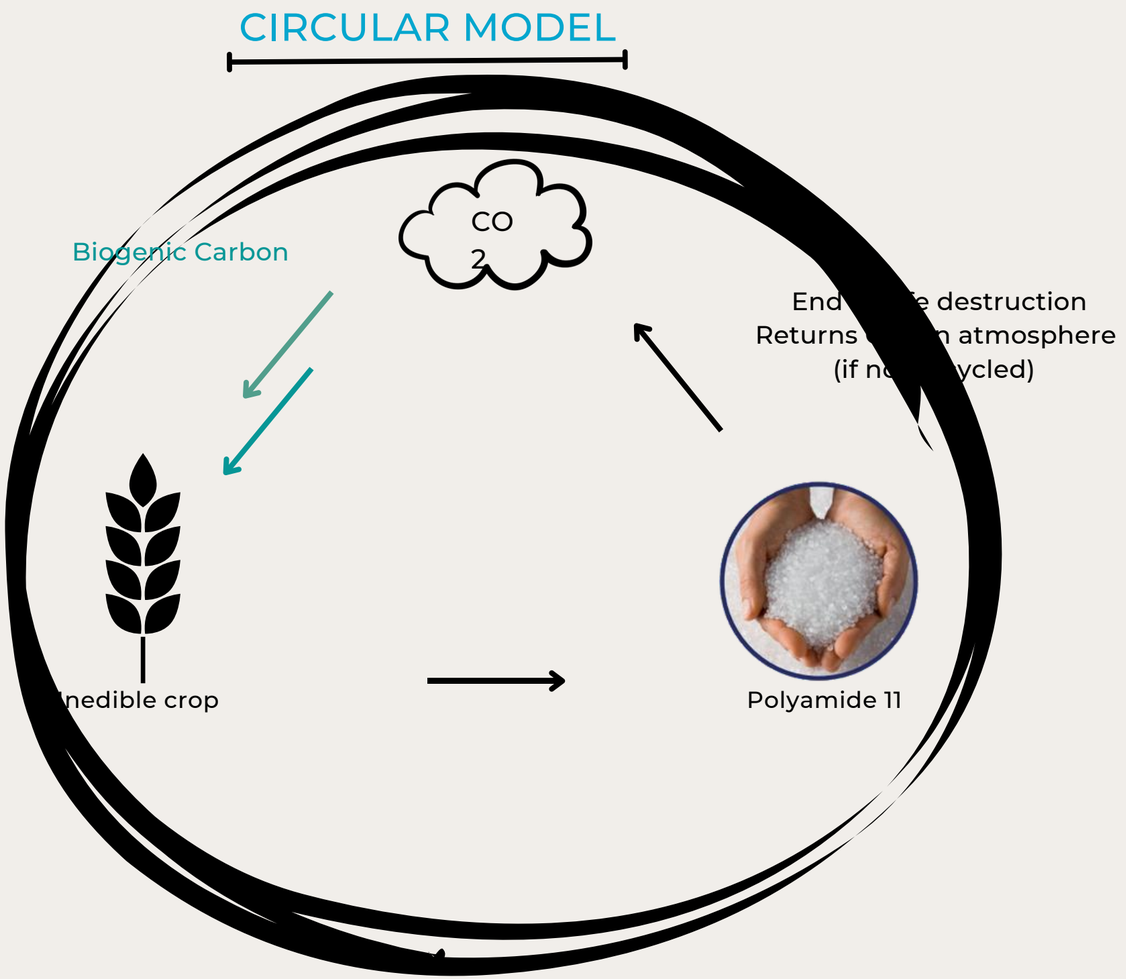
The beans are collected when dry, and the oil is then extracted by crushing the beans. From the oil, Amino 11 monomer is synthesized, then polymerized and extruded into PA11 pellets. From this point, fiber or molded components can be produced as with other nylon polymers. Like other thermoplastic polymers, additives can be compounded into the material to modify its properties.

As our PA 11 is 100% bio-based, it reduces the dependency on petrochemicals and avoids the depletion of fossil resources.

THE MANUFACTURING PROCESS OF PA 11: THE CIRCULAR MODEL

Fossil-based polymers are manufactured following linear model, with extraction of a finite resource –crude oil –at the beginning of the value chain. On the other side, PA 11 polymers are 100% bio-based and follow circular model, taking advantage of a renewable resource –the castor plant –thus do not contribute to the depletion of fossil resources.





PA 11 AND THE COMMITMENT TO LOWER THE CARBON FOOTPRINT

The carbon footprint of the polymer is constituted by two main elements:
Raw Materials: The use of castor beans, a renewable resource, is a significant step in reducing the carbon footprint of the polymer. Since castor plants absorb carbon dioxide from the atmosphere during their growth, the carbon released when they are converted into polymers is offset to some extent. This concept of incorporating biogenic carbon into the carbon footprint calculation is a key aspect of assessing the sustainability of bio-based materials. *Production Process*: Our efforts to use renewable or low carbon energy sources and make energy efficiency improvements in the production process are crucial.
By reducing the carbon emissions associated with manufacturing, reaching less than 2 kg CO2e/kg(1), we reached impressive achievements.
In fact, we decreased by 46% the carbon footprint, and it shows a commitment to sustainability. It represents an improvement of around 70% relative to traditional polyamide resins using fossil-based raw materials and conventional energy sources.

PA 11: THE ETHICAL YARN

ProfiMed is not just about products; we're about making a difference. We believe in empowering women in farming and supporting the future of our community. Here's why you, as our valued customer, should be excited:

Empowering Women in Farming: We're passionate about involving women in farming. When you choose our PA11, you're supporting this important cause. By supporting us, you're supporting them.

Scholarship Program for a Sustainable Future: Since 2021, we've been investing in the future of the Gujarat region and the castor community. When you partner with ProfiMed, you're a part of this change.
Your trust in our products contributes to our supplier Arkema scholarship program. In fact, choosing PA11 means encouraging local students to envision a sustainable world through art and creativity.

Your Role as a Customer: By choosing ProfiMed PA11, you're not just getting high-quality products; you're becoming part of a community that believes in making the world a better place.
You're not just a customer; you're a partner in shaping a brighter, more sustainable future for everyone. As a token of our appreciation, we're

here to serve you with the best
products and service, and you can take pride in knowing that your choice goes beyond mere transactions.
Join us in this journey toward a more sustainable and inclusive world.

PA 11: THE CHOICE FOR THOSE WHO DEMAND THE BEST

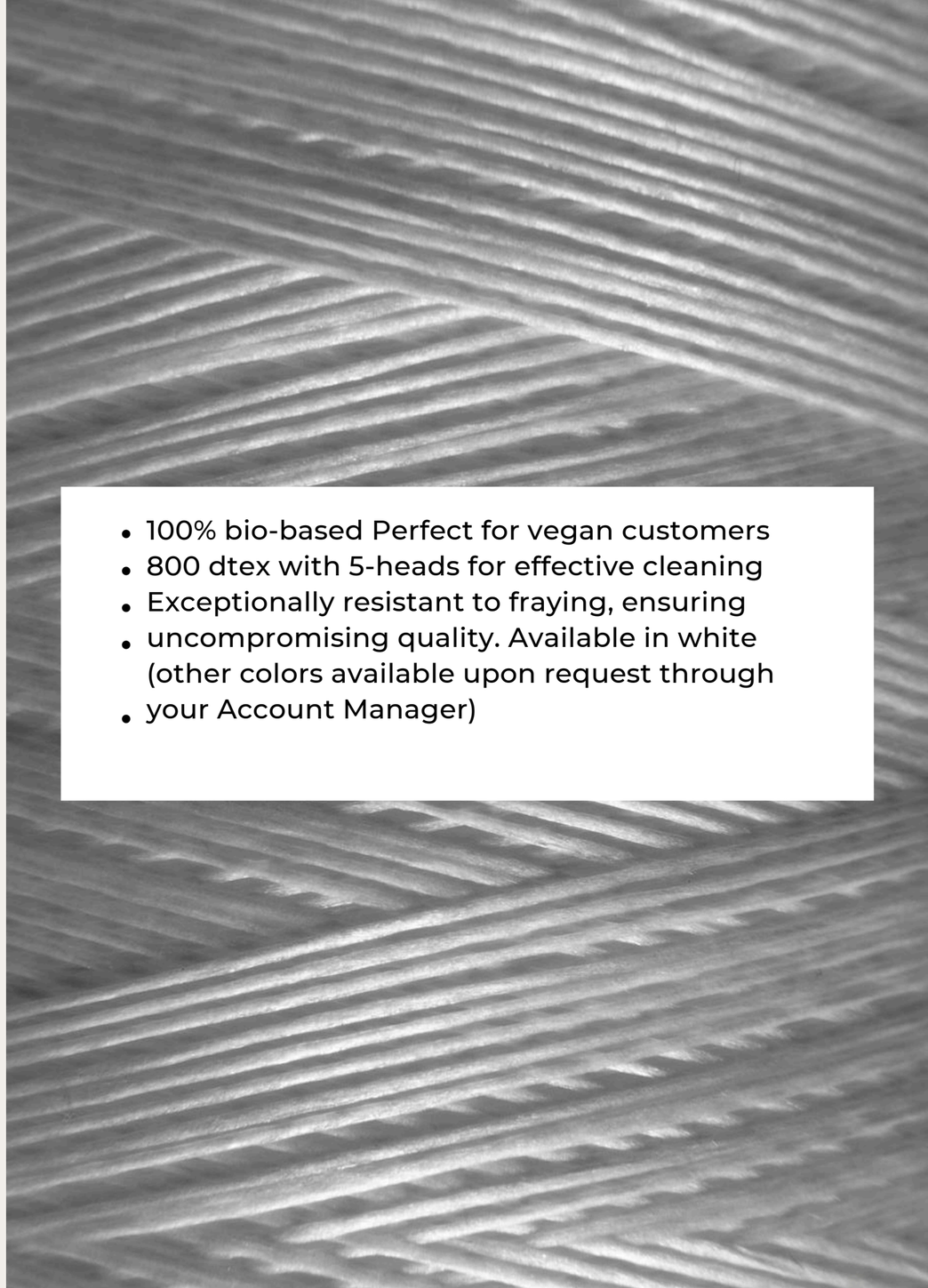
ProfiMed goal is to redefine the flossing experience. Committed to innovation, we invest a lot in R&D to provide our customers with the opportunity to be truly unique.

Why choose PA11 dental floss? When it comes to sustainability, durability, and exclusivity, there's no match for PA11. This remarkable material allows us to create dental floss that offers you the very best in oral care without compromising on our planet's well-being.
PA 11 chatarchteristics:

Sustainability guaranteed

: with PA11 yarn, you're choosing a dental floss that treads lightly on the Earth. It's an eco-friendly option that aligns with your values, making each flossing session a small step towards a greener world.

Durability Redefined: PA11 dental floss is built to last. Our floss maintains its integrity, providing you with a reliable tool in your daily oral care routine.
Unparalleled Exclusivity: We understand that you're unique, and your dental care should reflect that. PA11 allows us to create customized, high-quality dental floss that meets your specific needs. Say goodbye to one-size-fits-all solutions: your smile deserves the very best!



- 100% bio-based Perfect for vegan customers
- 800 dtex with 5-heads for effective cleaning
- Exceptionally resistant to fraying, ensuring
- uncompromising quality. Available in white (other colors available upon request through
- your Account Manager)

CUSTOMIZE YOUR PA 11 FLOSS

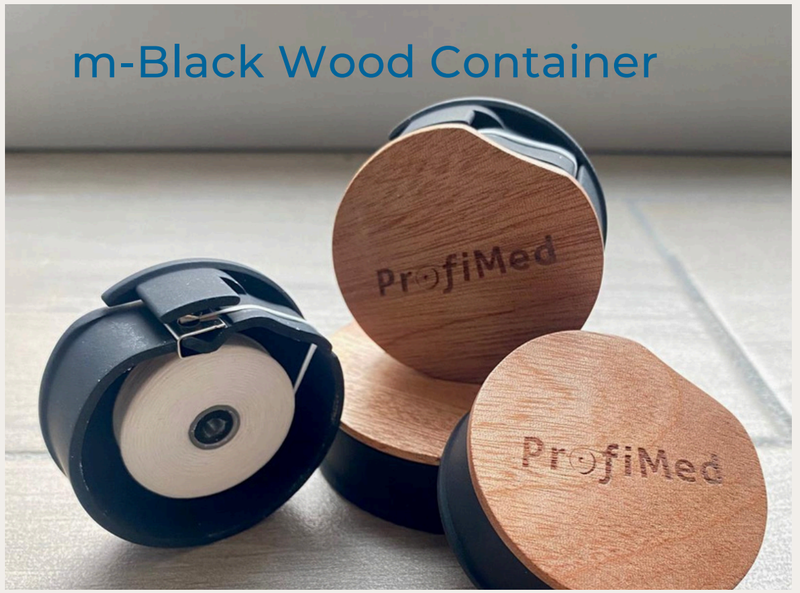
Creating a brand newdental floss by matching it with innovative treatments is a creative exercise. Here's a concept for a dental floss that combines cutting-edge treatments and features to form a unique product:

CHOOSE THE NEW AROMAS AND TREATMENTS

- Ginger flavor Coffee flavor New natural
- strawberry flavor (natural flavor, solvent-free,
- based on coconut and palm oil. Persistent as spearmint) Zinc and magnesium gluconate Nigella sativa oil (Black Cumin)
-
-

Other treatments and aromas available. Ask you Account Manager!

m-Black Wood Container



mBlackT M wooden container: unique patented bio-composite

mBlackT M combines the moldability of bio-plastics and the eco-sustainability of wood. The entire mBlackT M wooden floss container is developed around the circularity of material waste and the upcycling value proposition. It is obtained out of the same wood waste of the outer container production. The insight benefit for consumer who buys a product made with mBlack is to get a stock of CO2 that otherwise would be scattered into the atmosphere.

OTHER SUSTAINABLE PACKAGING SOLUTIONS

Recycled PP floss dispenser in the egg-shape version. Other colors available. Customizable with a 4 colors label. The product can be blistered or packed in a customized carboard box.

Cardboard floss dispenser entirely customizable, FSC paper available. Other shapes available.

Recycled PP promotional floss dispenser. Other colors available. Customizable with a 4 colors label. The product cab be flow-packed or packed in a customized cardboard box.

Glass jars: customizable with a label. the glass jar offers the possibility to create a refillable floss. Contact us for more info!

A DEDICATED TEAM AVAILABLE FOR YOU!

ProfiMed

Team

Elena Ghelfi
HEAD OF SALES DEPARTMENT

sales1@profimed.it

+39 (0)287251335

Martina Bolognini
ACCOUNT MANAGER

sales2@profimed.it

+39 (0)2 87251363

Svetlana Antonova
ACCOUNT MANAGER

sales_assistant@profimed.it

+39 (0)287251327

Cristina Fornaro
ACCOUNT MANAGER

sales@profimed.it

+39 (0)287251357

Valentina Castellano
ACCOUNT MANAGER

sales3@profimed.it

+39 (0)287251300