



Bio from renewable sources

# Our respectful yarns

Choosing bio-sourcing represents an important **commitment to the environment** and to **reduce the dependance on fossil fuels**.

All our bio-sourced options derive from agricultural feedstock not competing with food chains and grant the following **sustainable characteristics**:

- From **renewable sources**
- **Solution dyed** range
- **Biodegradable material** options
- **Durable**
- Fully **recyclable** through standard recycling methods

## Why choose Biofeel®

RadiciGroup provides **strong development capabilities** and a **longstanding experience** in the world of yarns:

- Our focus on **innovation, quality, customer satisfaction**, both social and environmental **sustainability** is the basis of our service, allowing continuous and always up-to-date solutions.
- Our dedicated **masterbatch department** provides a prompt assistance and a longtime experience as for dyeing.
- A short and integrated supply chain enables RadiciGroup to manage **production processes efficiently**, providing **personalized services**. In fact, RadiciGroup can guarantee small batches and flexibility in order handling.

## Advantages of co-branding with RadiciGroup

- Visibility
- Transparent supply chain and traceability of products
- A sound sustainability basis
- A deeply-rooted know-how in synthetic fibres

## Our applications

Biofeel® could be used in many different sectors, depending on the material type, polyamide, polyester or PLA.



Fashion  
apparel



Intimate  
wear



Sportswear



Industrial  
applications



Furniture



Outdoor



Automotive

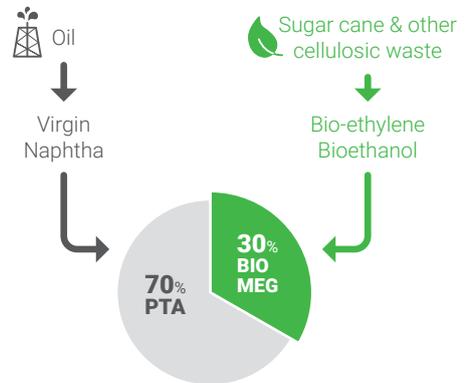
Biofeel® PET yarn is obtained through polymerization of 70% PTA (purified terephthalic acid) and 30% Bio-MEG (mono-ethylene glycol). Bio-MEG synthesis starts from **renewable sources**, such as sugar cane and cellulosic waste.

**Bio-MEG used in Biofeel® PET is 100% bio-based.**

Biofeel® PET is chemically identical to standard PET and stands out for:

- **Durability**
- Excellent light, washing and abrasive **fastness**
- Excellent **dyeability**
- Very good **tenacity**

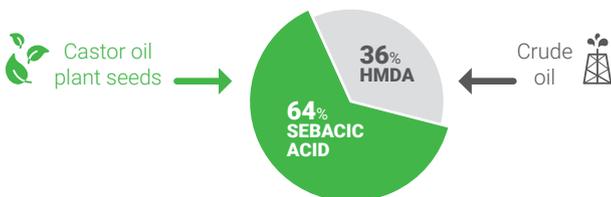
Biofeel® PET is available in several counts and filament combinations, texturized, solution dyed, yarn dyed.



# Biofeel® | PA

Biofeel® nylon includes PA610 yarn and staple fibre, obtained from the polycondensation of 1,6-hexamethylenediamine (HMDA) and sebacic acid derived from castor oil plant seeds.

**Biofeel® nylon is 64% bio-sourced.**



Biofeel® nylon guarantees:

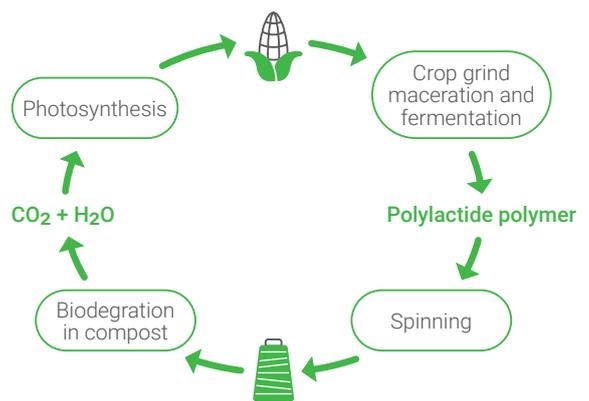
- Excellent drying ability for a feeling of **comfort**
- Excellent **chemical resistance** characteristics
- **Better dyeing uniformity** compared to other bio-based solutions
- Excellent **dimensional stability** characteristics

# Biofeel® | PLA

Biofeel® PLA is a continuous filament yarn made with polylactic resin (polylactic acid), synthesized from non-GMO vegetable raw materials, **100% biodegradable and compostable.**

Biofeel® PLA stands out for:

- Excellent **UV resistance**, UV radiation is dissipated
- **Low flammability**, it does not release toxic fumes
- **Lightness**
- Greater **hygroscopicity**



# RadiciGroup. Inside your world.

RadiciGroup is one of the world's leading producers of a wide range of chemical intermediates, polyamide polymers, high performance engineering polymers and advanced textile solutions, including nylon yarn, polyester yarn, yarn made from recovered and bio-source materials, nonwovens and personal protective equipment for the industrial and healthcare fields. These products are the result of the Group's outstanding chemical expertise and vertically integrated polyamide production chain and have been developed for use in a variety of industrial sectors, such as: automotive, electrical and electronics, household appliances, consumer and industrial goods, apparel, furnishing, construction, sports. The basis of the Group's strategy is a strong focus on innovation, quality, customer satisfaction and social and environmental sustainability.

## Sustainability

Every day at RadiciGroup, we work to make circularity our business model. We optimize the use of materials while fine-tuning our processes, eliminating waste and promoting recyclability from the earliest product design phases. We are always looking for low-impact solutions in terms of natural resources and energy. We rely on certified management systems for Quality, Health and Safety, Environment and Energy to keep our companies in line with the highest sustainability standards.



Data Source: RadiciGroup Sustainability Reports



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