



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

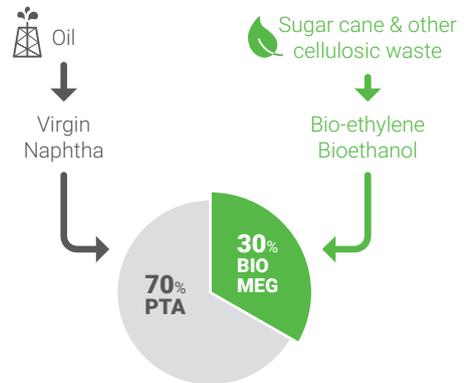
Biofeel® PET yarn is obtained through polymerization of 70% PTA (purified terephthalic acid) and 30% Bio-MEG (mono-ethylene glycol). Bio-MEG synthesis starts from **renewable sources**, such as sugar cane and cellulosic waste.

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**

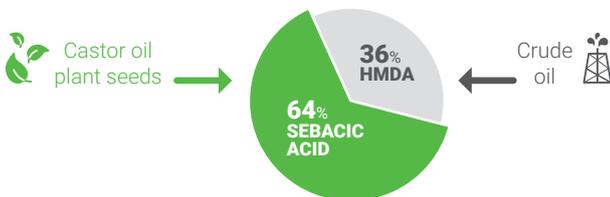
Biofeel® PET is available in several counts and filament combinations, texturized, solution dyed, yarn dyed.



Biofeel® | PA

Biofeel® nylon includes PA 6.10 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

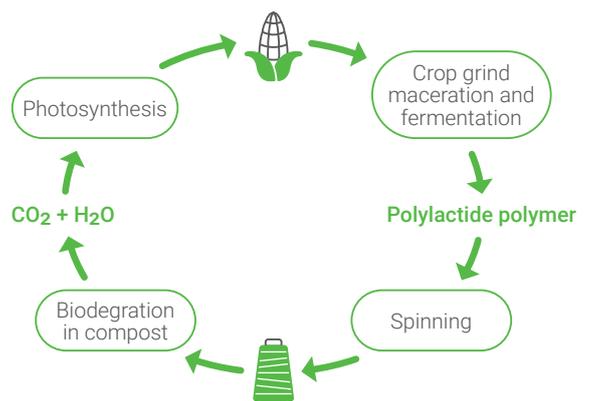
Biofeel® | PLA

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**



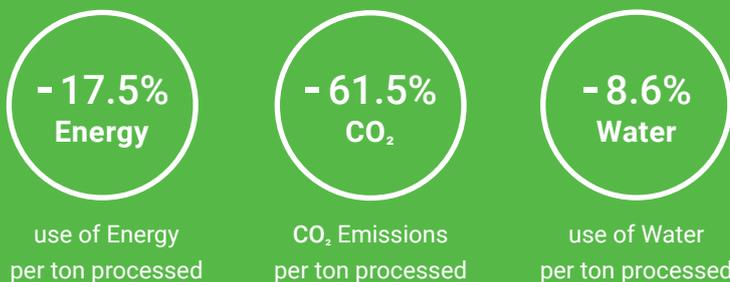
RadiciGroup. Inside your world.

RadiciGroup is one of the most active Italian chemicals manufacturers at an international level. RadiciGroup's diversified businesses operate worldwide and are focused on Specialty Chemicals, High Performance Polymers, Advanced Textile Solutions. Synergistic vertical integration, of polyamide production in particular, is one of RadiciGroup's strengths. Indeed, the Group has total control over its production chain, from chemical intermediates, such as adipic acid, to polyamide polymers, engineering polymers and synthetic fibres. RadiciGroup products are exported all over the world for use in the following sectors: apparel, sports, furnishings, automotive, electrical/electronics and household appliances.

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, 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 Safety, Environment and Energy to keep our companies in line with the highest sustainability standards.

Last 10 years' milestones:



Data Source: RadiciGroup Sustainability Reports



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