



New nylon stories

# An inexhaustible source of stories

This is a story you have never heard.

A story that begins anew again and again, but each time with a different ending.

**It is a story of how production scrap is converted into secondary raw material until it becomes Renycle®, a sustainable nylon featuring optimal performance for a variety of applications.**

Renycle® is ideal for expressing your identity in innovative ways.

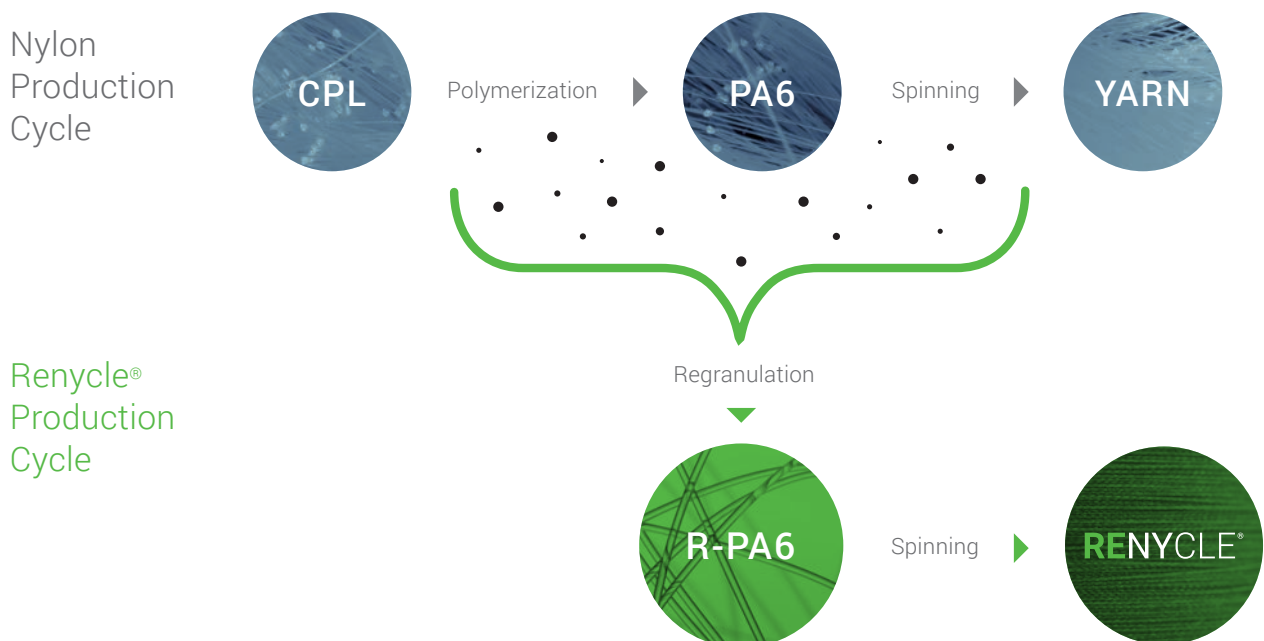
Are you ready to write your own story with Renycle®?

## Nylon after nylon

**Renycle® is the latest RadiciGroup product**

obtained from recycled nylon 6, a highly valued material because of its excellent resistance, dyeability, softness and versatility. Through recycling and recovery, production scrap is converted into polymers and then into yarn endowed with technical performance characteristics perfect for textile flooring, apparel and automotive applications.

## From scrap to new nylon



# Why choose Renycle®

Renycle® gives you the opportunity to be greener in several ways:

- **A global leader:** Renycle® is a product from RadiciGroup, one of the world's leading manufacturers of polyamides, synthetic fibres and engineering polymers.
- **Performance:** Renycle®'s technological value and performance are retained unchanged over time and there is no loss into the environment.
- **No waste:** conversion of scrap eliminates the need for new raw material.
- **Green energy:** the energy consumed in Renycle® polymer production is entirely green, as it comes from renewable sources.

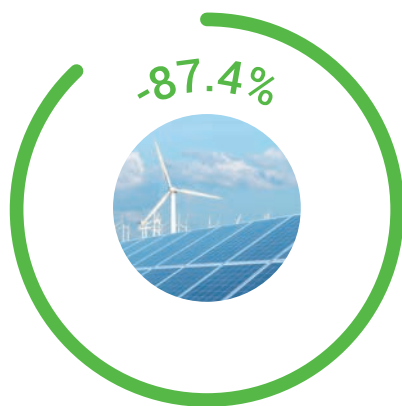
## Our Renycle® results have a lot to say

Resource saving compared to standard PA6 polymer production.

(Data obtained from internal evaluations, under EPD certification process.

Energy data based on Italian energy mix).

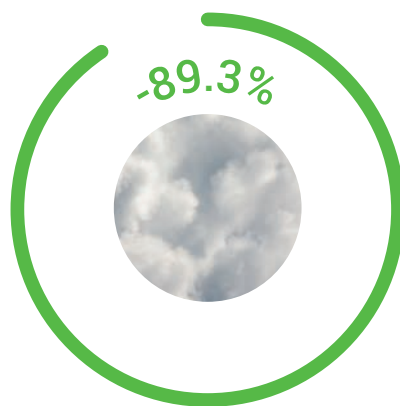
**Renycle® Polymer**



### Energy

**Energy saving of 87.4%** compared to energy used for standard PA6 polymer production.

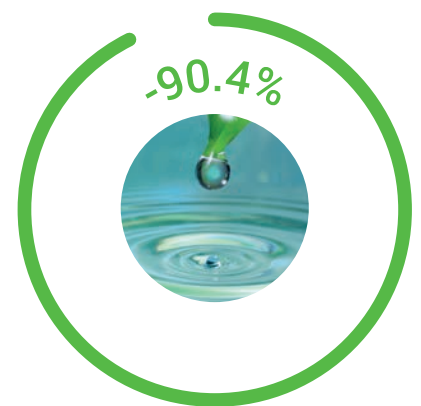
(Global Energy Requirement MJ/kg)



### Emissions

**89.3% lower CO<sub>2</sub> emissions** compared to standard PA6 polymer production.

(Global Warming Potential GWP100 kg CO<sub>2</sub> eq)



### Water

**Water saving of 90.4%** compared to consumption for standard PA6 polymer production.

(Potential Water Deprivation m<sup>3</sup>)

## The Renycle® story does not end here. Its applications go on and on.

Renycle® is the ideal solution for all those sectors where creativity and high performance are required. It has countless applications in:



Activewear



Underwear



Hosiery



Technical apparel



Outerwear



Beachwear

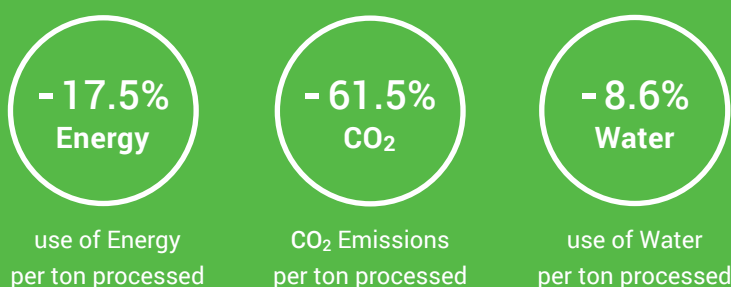
# RadiciGroup. Inside your world.

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



RADICI YARN SPA  
Via Provinciale, 1125 IT - 24020 Villa D'Ogna (BG)  
Tel. +39 0346 891111 - Fax +39 0346 23396  
Via Case More, 12 IT - 24020 Ardesio (BG)  
Tel. +39 0346 891111 - Fax +39 0346 23396  
[www.radicigroup.com](http://www.radicigroup.com)  
[apparel.technical@radicigroup.com](mailto:apparel.technical@radicigroup.com)

The information provided in this document corresponds to our knowledge on the subject as of the date of publication. The information may be subject to revision as new knowledge and experience become available. Data provided fall within the normal range of product properties and relate only to the specific designated material. The data may not be valid for such material if used in combination with any other material or additive, or in any process, unless otherwise expressly indicated. The data provided should not be used to establish specification limits. Such data are not intended to substitute for any testing you may need to conduct to determine the suitability of a specific material for particular purposes. Since the above mentioned companies cannot anticipate all the variations occurring in end-use conditions, the above mentioned companies makes no warranties and assumes no liability in connection with any use of the above information. Nothing in this publication is to be considered as a licence to operate under, or a recommendation to infringe, any patent rights.