



Recycling at the highest level

# There are important messages in our bottles

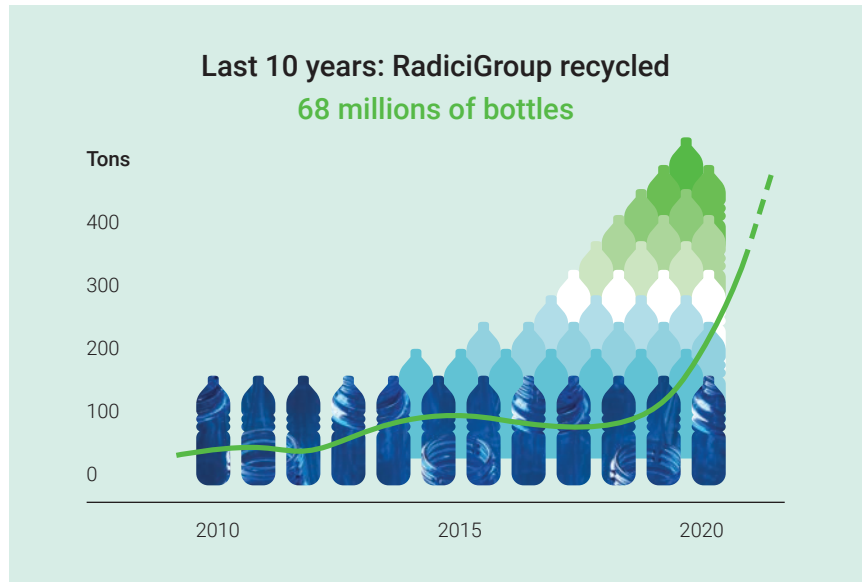
**Over the last 10 years,**

RadiciGroup polyester business area **has recycled more than 68 millions of bottles**

(100% post consumer bottle flakes) with a steady growth rate.

This led to the creation of Repetable®, a sustainable product obtained from post-consumer recycled PET Bottles with optimal performance for a variety of applications.

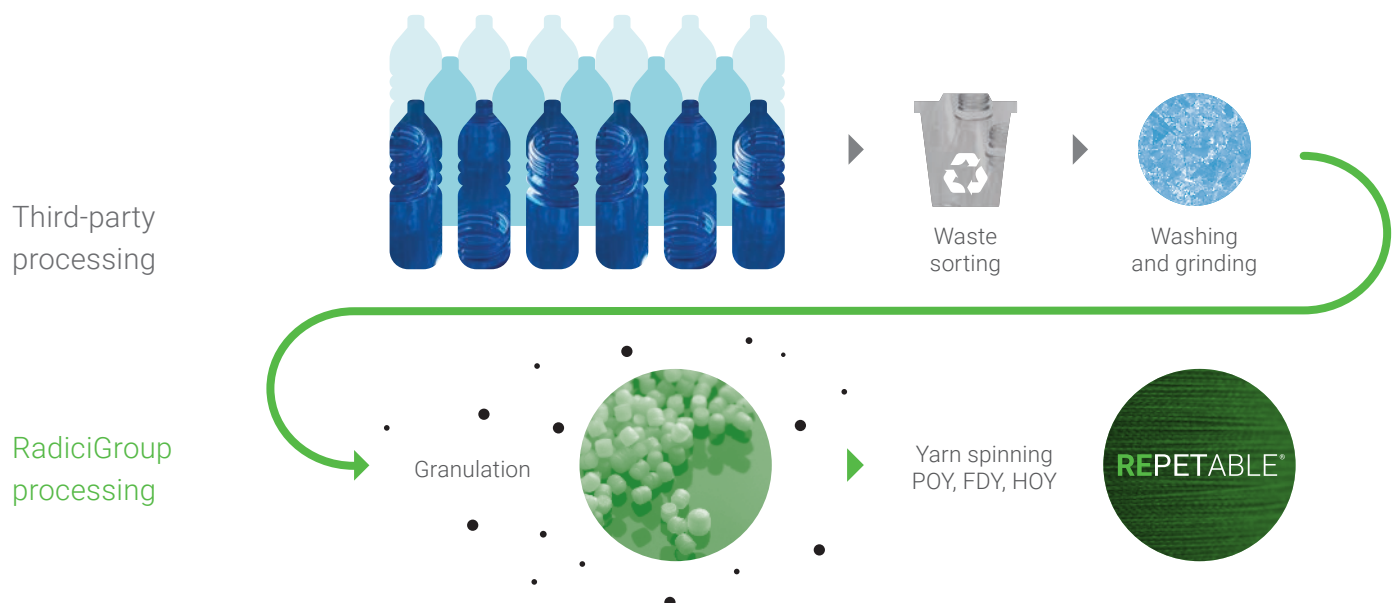
Plastic Consult estimate on average weight of italian bottles.



## Repetable®. Multi life fibres.

Repetable® is the long-standing RadiciGroup product, obtained from post-consumer recycled polymer (PET Bottles) which respects the environment, especially in raw and dope dyed versions. It boasts versatility of production and a wide product range as for dope dyed in UV stabilized version.

## We make it endless



# High quality solutions for any need of yours

	Bright	Semi dull	Full dull	Dope dyed	Yarn dyed	Uv Resistant	Bacteriostatic
PES	✓	✓	✓	✓	✓	✓	✓
CATIONIC	✓	✓			✓		✓
PBT	✓	✓		✓			✓
PLA	✓	✓		✓			✓
FLAME RETARDANT	✓	✓	✓	✓	✓	✓	✓
ANTIMONY FREE	✓	✓		✓	✓		✓
CERAMIC			✓	✓	✓		✓
FOOD CONTACT	✓	✓		✓			
MATRIX PES/PA		✓					
BICO PES/PES			✓			✓	
<b>REPETABLE®</b>	✓	✓	✓	✓	✓	✓	

## REPETABLE®

**A long-term leader in recycled PET, RadiciGroup has created Repetable®.**

It is a wide range of sustainable, versatile and high-performance polyester fibres offering multiple possibilities as for additives, dyeings and applications. In addition, RadiciGroup can also guarantee production for reduced quantities, and handle personalised requests in terms of yarn counts, filaments and technical characteristics.

### Dullness

Available in bright, semi-dull and full-dull versions.

### Cross sections

All combination polymer/additive available in standard and special cross section: round, trilobal, triangle, hollow and octolobal.

### Colours and dyeings

Available in solution-dyed and yarn-dyed colours according to customer request.

### Availability for small orders

Supply is possible also for reduced quantity orders.

### Technical Properties

- 1 - HUV resistant x outdoor applications
- 2 - Flame retardant x furniture and contract **NEW**
- 3 - Cationic x easy dyeing melange and fantasy yarns **NEW**

# Why choose Repetable®

- **A global leader:** Repetable® is a product from RadiciGroup, one of the world's leading manufacturers of polyamide, polyester, synthetic fibres, nonwovens and engineering polymers.
- **Performance:** Repetable® technological properties and performances are comparable with virgin polyester.
- **No waste:** conversion of PET bottles helps reduce potential waste in the environment.
- **Green energy:** 49% of the energy used by RadiciGroup is green, as it comes from renewable sources.

## Our results are repe(a)table

Resource saving standard yarn dyed polyester vs Repetable® solution dyed polyester.

(Studio ICA 2012 – LCA Short Study for RadiciGroup 2018 – Ecoinvent 3.3 – EPD methodology)

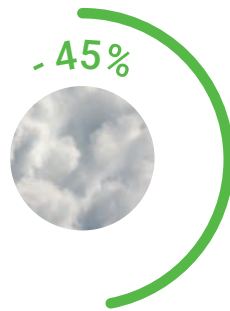
Repetable® Yarn



Energy

**Energy saving of 60%**

Cumulative Energy Demand  
(CED - MJ per kg)



Emissions

**45% lower CO<sub>2</sub> emissions**

Global Warming Potential  
(GWP - kg CO<sub>2</sub> eq. per kg)



Water

**Water saving of 90%**

Water Consumption  
(litres per kg)

## Our applications

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



Hotels and offices



Cruise ships



Fashion apparel



Sportswear



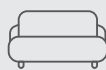
Intimate wear



Airplanes



Automotive



Furniture



Outdoor



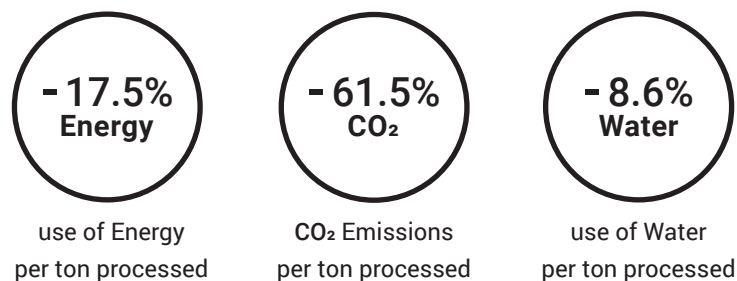
# RadiciGroup. Inside your world.

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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