



Our support, your well-being.

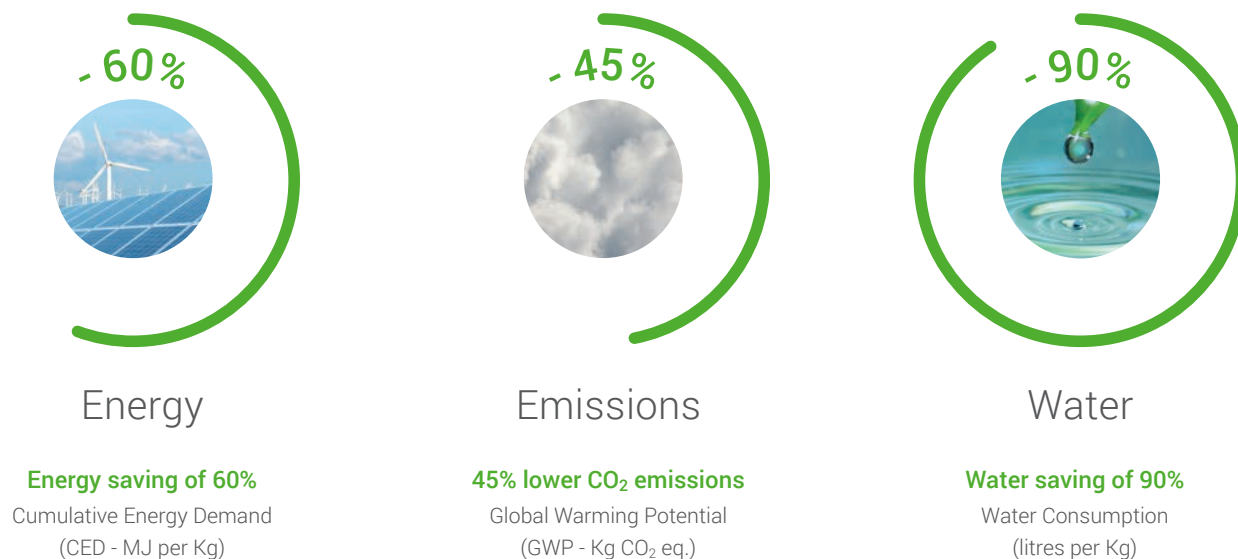
Med-Tech Yarns

Well-being is greener than ever

REPETABLE®

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)



Our REPETABLE® results have a lot to say.

Compared to standard yarn dyed polyester, there is an energy saving of **60%** (Cumulative Energy Demand, CED - MJ per Kg), **45%** lower CO₂ emissions (Global Warming Potential, GWP100 Kg CO₂ eq.) and in case of water a **90%** saving can be recorded (Water Consumption, litres per Kg).

Studio ICA 2012 - LCA Short Study for RadiciGroup 2018 - Ecoinvent 3.3 - EPD methodology.

Our RENYCLE® results have a lot to say.

Compared to standard PA6 polymer, in terms of energy there is a saving of **87.4%** (Global Energy Requirement MJ/kg), while considering emissions there is a reduction of **89.3%** (Global Warming Potential GWP100 kg CO₂ eq.). In terms of water, saving corresponds to **90.4%** (Potential Water Deprivation m³).

Data obtained from internal evaluations, under EPD certification process. Energy data based on Italian energy mix.

Many applications, a unique well-being

At RadiciGroup we work every day to produce materials that improve **well-being**. Our **med-tech offer** covers a wide range of items in polyamide and polyester, both virgin and recycled. Our brands are: **Radilon®**, **Renycle®**, **Radyarn®**, **Starlight®** and **Repetable®**.



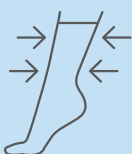
Orthoses/Braces

Orthoses/braces support the function of joints such as the shoulder, knee or ankle. They are used to relieve stress on the joint and to stabilise or immobilise it for irritative conditions, injuries or after operations.



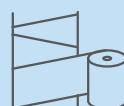
Soft Supports

Ideal for sports injuries and prevention. These supports can considerably relieve pain in the shoulder, arm, hand, knee and foot as well as ease mobility.



Compression Legwear

The level of severity of the venous, lymphoedema or lipoedema condition determines the compression pressure which is required. Medical specialist retailers provide compression stockings in several different pressure classes.



Bandages

Stretchable bandages are used to create localized pressure. They are commonly used to treat muscle sprains and strains by reducing the flow of blood to a particular area. This is obtained by the application of stable pressure which can restrict swelling at the place of injury. Elastic bandages are also used to treat bone fractures.



Others

RadiciGroup product range also covers:

- Biomedical textile and in-body applications.
- Yarns for medical furniture and accessories.

Customers or certifying body audits are welcome.

Not included in the remit are medical, biological or toxicological validation of the yarn or clean room production.

Why choose RadiciGroup Med-Tech Yarns

Customer Services

RadiciGroup benefits from the know-how and best practices developed in all the business areas of the Group. **Strong development capabilities** and a **longstanding experience** in the world of yarns allow the company to find the best solutions for the med-tech sector:

- The basis of the Group's strategy is a strong focus on **innovation, quality, customer satisfaction**, and social and environmental **sustainability**.
- The offer of a wide range of services guarantees continuous and always **up-to-date solutions** and **assistance**.
- A **short and integrated supply chain** enables RadiciGroup to manage production **processes efficiently**, providing **personalized services**. In fact, RadiciGroup can guarantee small batches, flexibility in order management.
- An extensive variety of **additives** and **colours** with different technologies is also available.

Advantages of co-branding with RadiciGroup

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

RadiciGroup's Med-tech offer

- **Bacteriostatic additivation** available, guaranteed by silver ions embedded within the fibre during the extrusion phase. This is an optimal solution since no post-processing can keep unchanged the textile characteristics of the yarn:
 - **Antimicrobial properties** as Silver exercises an effective control of bacterias.
 - **Long-lasting effect** which resists also after repeated washing.
 - **Easier maintenance** of products.
- **Solution Dyeing**, obtained in one-step process in which colour pigments are added to the raw polymer before it is extruded into fibres. It grants:
 - excellent **colour fastness**;
 - **energy saving**;
 - **CO₂ emission reduction**;
 - **less water, dyestuff** and **chemicals consumption**;
 - **durability, recyclability** and **high performance**.

Features that make a difference

- **Comfort**

Yarn elasticity and resiliency allow the product to be well fitting.

- **Light weight**

Low density materials.

- **Durability**

No pilling, color resistance to sweat, abrasion and sunlight.









- **Breathability and Moisture management**

Excellent combination between transpiration, moisture absorption and drying efficiency.

- **Skin friendly**

Non-irritating, hypoallergenic.

Product Certificates

CERTIFICATES	PA6		PET		
	Virgin	Recycled	Virgin	Virgin	Recycled
	radilon®	RENYCLE®	rad yarn®	starlight®	REPETABLE®
	961963.0 CENTROCOT 	961963.0 CENTROCOT 	995030.0 CENTROCOT 	950028.0 CENTROCOT 	950028.0 CENTROCOT  995030.0 CENTROCOT 
			GRS 2019-141		

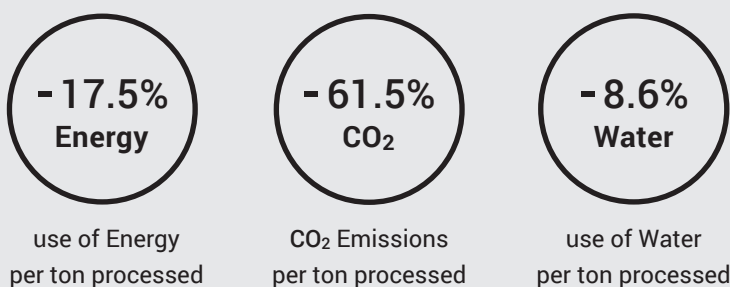
RadiciGroup. Inside your world.

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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