# TO BE GLOCAL 2019





TO BE GLOCAL 2019



# RADICIGROUP INSIDE YOUR WORLD

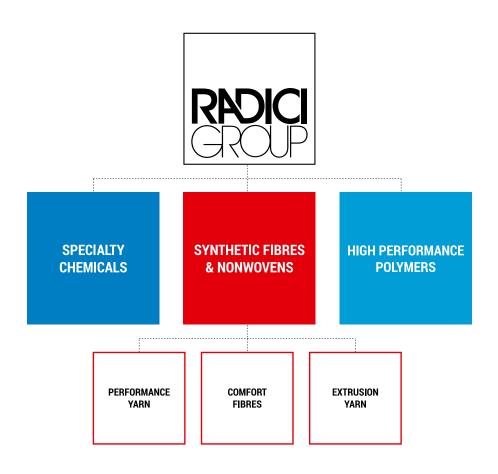
With approximately 3,100 employees, a sales revenue of EUR 1,211 million in 2018, and a network of production and sales sites located throughout Europe, North America, South America and Asia, RadiciGroup is one of the world's leading producers of a wide range of chemical intermediates, polyamide polymers, compounds, synthetic fibres and nonwovens.

These products are the result of the Group's outstanding chemical know-how and vertical integration in the polyamide production chain, developed to be used in a variety of industrial sectors such as:

- AUTOMOTIVE
- FLECTRICAL AND FLECTRONICS
- CONSUMER GOODS
- APPAREL
- FURNISHINGS
- CONSTRUCTION
- HOUSEHOLD APPLIANCES
- SPORTS

The basis of the Group's strategy is a strong focus on innovation, quality, customer satisfaction and social and environmental sustainability.

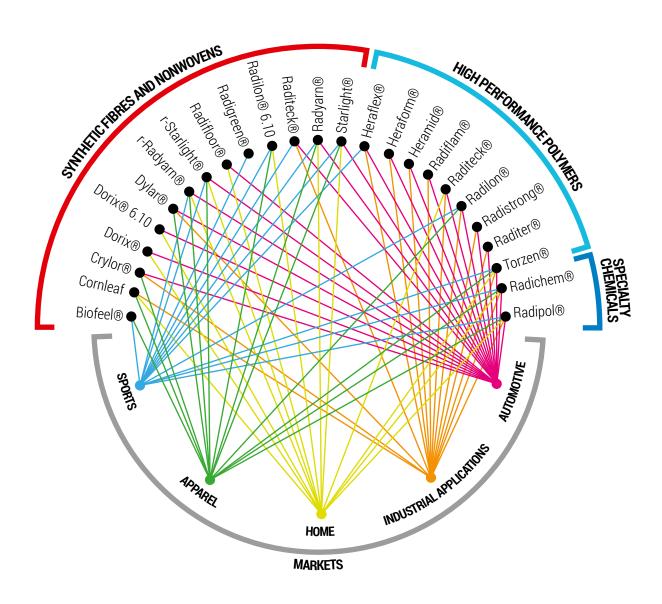
With its business areas - Specialty Chemicals, High Performance Polymers and Synthetic Fibres & Nonwovens (Performance Yarn, Comfort Fibres and Extrusion Yarn), RadiciGroup is part of a larger industrial group that also includes textile machinery (ITEMA), energy (GEOGREEN) and hotel businesses (SAN MARCO).







### **OUR MARKETS & BRANDS**



### **OUR MARKETS & BRANDS**

Every brand name can be associated to one or more application areas...



Automotive



Apparel





Industrial applications



Sports

...and to a sustainability property with graphic icons that identify:



Products dyed using ecofriendly solution dyeing technologies.



Biopolymer-based products derived from renewable sources.



Products made with recycled and/or waste materials.



Products manufactured with renewable energy.



Recyclable products.

#### SPECIALTY CHEMICALS

















#### **RadiPol®**

PA6 polymers and copolymers for compounding, films, industrial yarn and textile fibres. PA6.6 polymers and copolymers for compounding, fast moulding cycle, extrusion, monofilaments, films, industrial yarn and textile fibres.

Long chain polyamides PA6.10 (bio-polymer) and PA6.12 for compounding, injection moulding, monofilaments, industrial varn and textile fibres. High Temperature PA for extrusion of monofilaments.













#### RadiChem®

Adipic Acid for the production of fibres, PA6.6 engineering plastics, polyurethanes, resins, plasticizers, lubricants, adhesives, additives, pharmaceuticals, insecticides and herbicides. Hexamethylendiamine, intermediates for polyamides and coatings; AGS, intermediate for polyesters and solvents. Nitric Acid for metallurgy, steel treatment, zinc-plating and chromiumplating (galvanic industry), machinery cleaning and disinfection (dairy industry) and nitrogen fertilizer production.

KA Oil. Esters for biodegradable solvents, paint removers, cosmetics, detergents, coatings, plasticizers and chemical intermediates.













**Heraflex®** 









### Radilon®

PA-based engineering polymers and compounds (PA6, PA6.6, co-polymers, PA6.10, PA6.12, PPA and other special PA for high temperature resistant applications) for injection moulding, extrusion and blow moulding. Main applications in the automotive, electrical-electronic, and technical/industrial sectors along with consumer goods.









### **Radiflam®**

PA and PBT-based flame-retardant compounds used for injection moulding and extrusion. Main application sectors in the electrical-electronic, automotive, technical/industrial sectors along with consumer goods.

Polyester (PBT and PBT compounds) for injection moulding. Main applications in the technical/industrial sectors, along

with the automotive and electrical-electronic sectors.

tive and technical/industrial sectors.

Thermoplastic elastomers based on co-polyesters (TPE-E),

SEBS and SBS for applications in the automotive and techni-

cal/industrial sectors along with consumer goods.



Raditer®





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### **Radistrong®** Special PA6.6-based compounds.

The main distinguishing features are the high mechanical properties, the lower variation of properties in case of moisture absorption and an excellent surface appearance, for injection moulding of high mechanical resistance items. Main applications in the automotive and technical/industrial sectors.













Heraform®





(A) (D) (B)



### **Heramid®**

Low-environmental impact PA-based compounds, manufactured using mainly post-industrial, selected secondary raw materials (PA6, PA6.6). Main applications in the technical/ industrial sectors along with the automotive sector.











### Raditeck®

High performance PPS-based compounds, distinguished by their exceptional characteristics of chemical-thermal resistance and dimensional stability. Main applications in the automotive and electrical-electronic sectors along with consumer goods.

POM co-polymers destined to applications in the automo-



PA6.6-based compounds including improved heat-resistance specialities (Torzen® Marathon) for automotive, electrical-electronic, industrial and consumer applications.



### **OUR MARKETS & BRANDS**

SYNTHETIC FIBRES AND NONWOVENS

PERFORMANCE YARN - FLOOR COVERING















Polyamide 6 and 6.6 BCF yarn for domestic/residential, contract and automotive carpeting, coverings and upholstery.











### dorix®

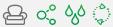
Polyamide 6 staple fibre available in raw-white and solutiondyed versions, the latter in tailor-made colours.

It is used in the automotive, technical/industrial, apparel and carpeting sectors.











### dorix® 6.10

64% Bio-based polyamide staple fibre, available in a vast range of colours. It is the ideal solution for the contract textile floor coverings sector, particularly the manufacture of carpeting and needle-felt carpet tiles for high performance applications where colour fastness and resistance to wear and tear are a must.

PERFORMANCE YARN - INDUSTRIAL









#### Raditeck®

High-tenacity polyamide 6.6 yarn used for the production of technical items for sports, automotive and industrial applications.

COMFORT FIBRES - POLYAMIDE

### radilon











### Radilon®

Polyamide yarn and staple used for the production of fashionwear, technicalwear, sportswear and intimatewear, as well as household furnishings.











### Radilon® 6.10

64% biobased polyamide varn, ideal for apparel (ready to wear, technicalwear, sportswear, intimatewear), and for home interiors.











### Raditeck®

High-tenacity polyamide 6.6 yarn used for the production of technical items for sports, automotive and industrial applications.





### **Biofeel®**

A new bio-polyamide range of products made with renewable source materials available in the fibres sector for apparel and sportswear applications.

COMFORT FIBRES - POLYESTER

### -Radyarn-



### **Radyarn®**

Raw-white and solution or yarn dyed polyester, available in additivated versions (flame retardant, bacteriostatic, UV protection) and also as microfibre, supermicrofibre and bicomponent fibre (PA/PET) for apparel, household furnishings, automotive and technical/industrial applications.

### r-Radyarn-











### r-Radyarn®

Continuous polyester filament derived from post-consumer recycled polymer, it boasts high versatility as for its dope dyed, bacteriostatic, and UV stabilized versions. It can be used for a wide range of applications, from apparel, to home interiors to technical applications.









### Starlight®

Raw, solution-dyed and additivated polyester yarn (flame retardant, bacteriostatic, UV protection) for numerous applications, from upholstery to curtains, sportswear, hygiene, medical and automotive.













### r-Starlight®

Eco-sustainable polyester yarn produced from post-consumer recycled PET bottles; suitable for a vast range of applications from apparel to upholstery, automotive, technical and industrial applications.

EXTRUSION YARN - SPUN BOND











### **Dylar®**

High performance polypropylene nonwoven spunbonded available from 12 to 150 gr/sgm. Suitable for bulding / roofing, packaging, medical applications, automotive, filtration, agriculture, furnishing, table clothes and single-use items.

**EXTRUSION YARN - SPECIALTY** 











### Radigreen®

Polypropylene, polyethylene and polyamide artificial grass yarn for sports fields, recreational and domestic indoor and outdoor applications, including landscaping (gardens and urban design).

OTHER FIRRES AND YARNS













#### Cornleaf

Raw or solution-dyed yarn, available with antimicrobial functionality, made from Ingeo™ polylactic acid (PLA) 100% natural biopolymer. Derived from renewable sources, this product is suitable for apparel, intimate wear, furnishings and consumer goods.











### **Crylor®**

Acrylic fibre and top for technicalwear, sportswear, knitwear and upholstery.

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### **CIRCULAR ECONOMY**

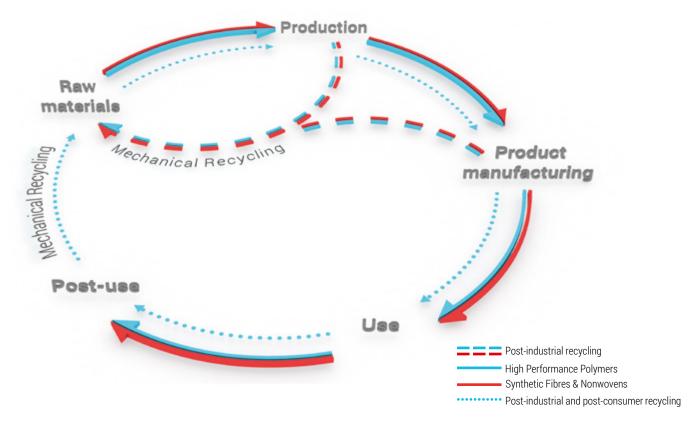
RadiciGroup is fully committed to circular economy. In a circular economy the value of products and materials is maintained for as long as possible.

Waste and resource use are minimised, and when a product reaches the end of its life, it is used again to create further value.

Products are eco-designed, i.e. they are carefully conceived bearing in mind their actual and potential environmental impacts during

their entire life-cycle, with special attention to resource use and recycling possibilities. Through R&D, innovation and its recycled and recyclable products in particular, RadiciGroup intends to contribute to a sustainable industrial system, in which CO2 emissions are efficiently used and competitiveness is maintained.

This transition can radically transform economy, bringing major economic benefits and contributing to innovation, growth and job creation.



### VISION, MISSION, VALUES

#### VISION

To be one of the leading chemical groups in the polyamide, synthetic fibres and high performance polymers production chain.

#### MISSION

- To promote the development of our businesses while pursuing our Group values and culture.
- To pursue our vision by valorising and optimizing our resources, establishing strategic alliances and searching for new markets, including niche markets.
- To embed sustainability into new product and application development.

#### VALUES

- Putting people at the centre of everything we do, respecting their right to physical and cultural integrity.
- Efficiency and effectiveness of our management systems to improve our business.
- Fairness and transparency of our management systems to comply with all applicable laws and regulations.
- Attention to the needs and expectations of our stakeholders in order to create a feeling of belonging and satisfaction.
- Reliability of our management and operating systems to ensure the safety of our employees, our community and the environment.
- Our responsibility as a company for our workers, productionsites and communities.

# THE RADICIGROUP KEY NUMBERS

PERSONNEL

3,100 workers

2018 SALES - CONSOLIDATED AT RADICIGROUP LEVEL

1,211 (Millions of Euros)



2018 SALES - CONSOLIDATED FOR EACH BUSINESS AREA (Millions of Euros)



\*RADICIGROUP WORKERS

### A GLOBAL PRESENCE

ASIA

China

Shanghai Suzhou

India

New Delhi

**AMERICAS** 

Argentina

Buenos Aires Bio Grande

Brazil

Araçariguama São José dos Campos

Mexico

Ocotlán

USA

Wadsworth

**EUROPE** 

**Czech Republic** 

Podborany

France

Saint Priest

Germany

Hamburg Lüneburg

Selbitz

Tröglitz

Hungary

Szentgotthard

Italy

Andalo Valtellino

Ardesio

Casnigo

Chignolo d'Isola

Gandino

Novara

Villa d'Ogna

The Netherlands

Born

Romania

Savinesti

**Spain** 

Barcelona

Switzerland

Stabio

**United Kingdom** 

Wakefield

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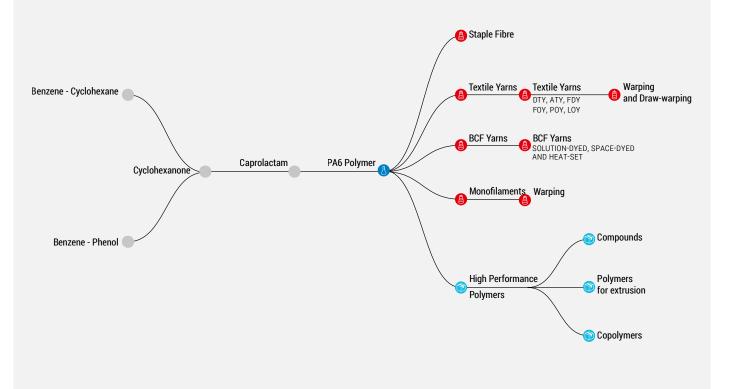
### PA6

Production chain integration from polymer to semi-finished products. Specific know-how in the Business Areas High Performance Polymers and Synthetic Fibres and Nonwovens.

Value added: downstream technologies and applications.

### **CAPTION**

- Specialty Chemicals
- High Performance Polymers
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup

















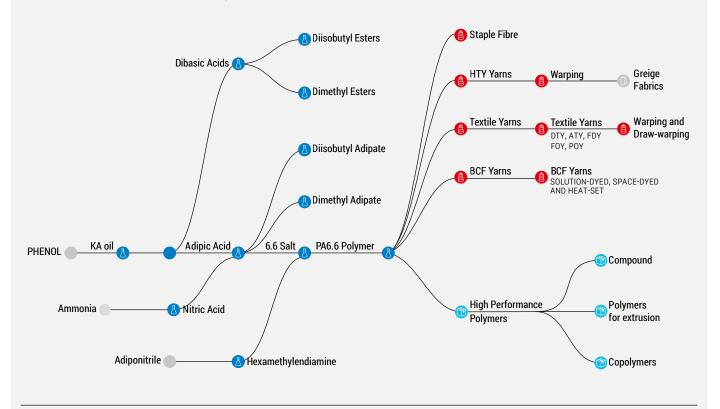


PA6.6

Production chain integration from monomer to semi-finished products. Specific know-how in the Business Areas Specialty Chemicals (intermediates), High Performance Polymers and Synthetic Fibres and Nonwovens. Value added: downstream technologies and applications.

### **CAPTION**

- Specialty Chemicals
- High Performance Polymers
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup





















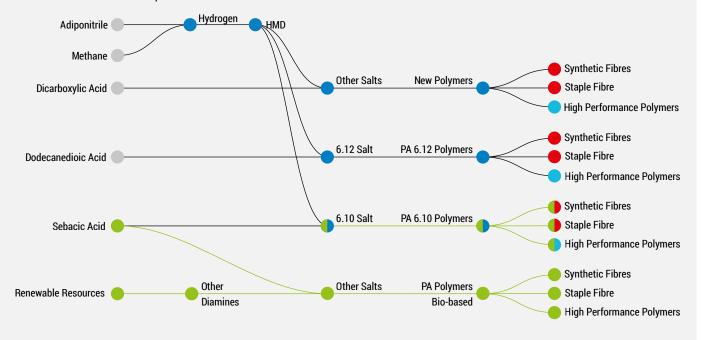
## PA6.10, PA 6.12 AND OTHER POLYMERS

Partial upstream integration from monomers to semi-finished products. Specific know-how in the Business Areas High Performance Polymers and Synthetic Fibres and Nonwovens. Value added:

- Sustainable raw materials from renewable sources (polyamide 6.10 and other polymers)
- · Long- chain polyamides with better chemical properties
- · High-temperature resistant polyamides
- · Market driven developments

### **CAPTION**

- Specialty Chemicals
- High Performance Polymers
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup
- Low impact products/processes and bio-based products







radilon radilon





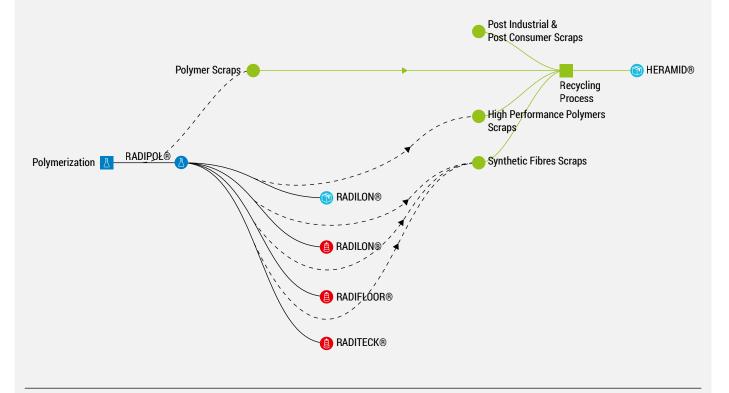


# SYNERGY & INTEGRATION SUSTAINABILITY

PA 6 AND PA 6.6 - RECYCLING PROCESS

### **CAPTION**

- Specialty Chemicals
- O Product
- High Performance Polymers
- Process
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup
- Low impact products/processes and bio-based products







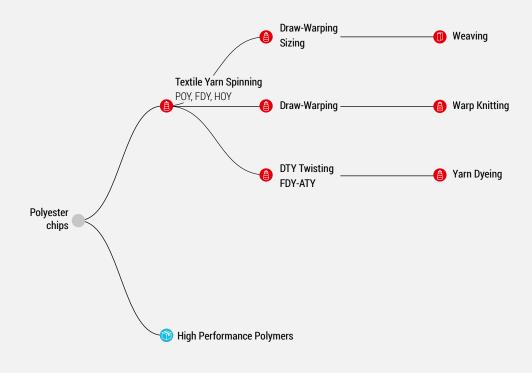
### PET-PBT

Production chain integration from polymer to semi-finished products. Specific know-how in the Business Areas High Performance Polymers and Synthetic Fibres and Nonwovens.

Value added: downstream technologies and applications.

### **CAPTION**

- Specialty Chemicals
- High Performance Polymers
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup













# **SYNERGY & INTEGRATION SUSTAINABILITY**

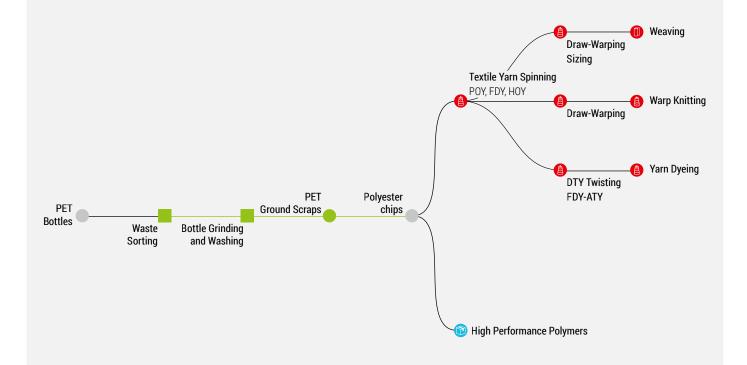
PET - RECYCLING PROCESS

### **CAPTION**

- Specialty Chemicals
  - O Product

Process

- High Performance Polymers Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup
- Low impact products/processes and bio-based products



\*r<del>-Starlight</del> \* r-Radyarn-



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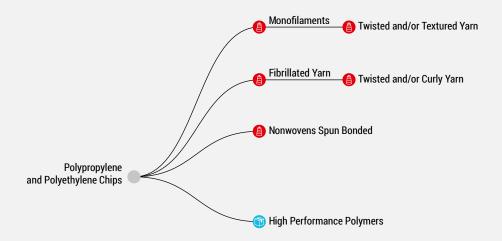
### PP-PE

Production chain integration from PP or PE polymers to semi-finished products. Specific know-how in the Business Areas High Performance Polymers and Synthetic Fibres & Nonwovens.

Value added: downstream technologies and applications.

## **CAPTION**

- Specialty Chemicals
- High Performance Polymers
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup







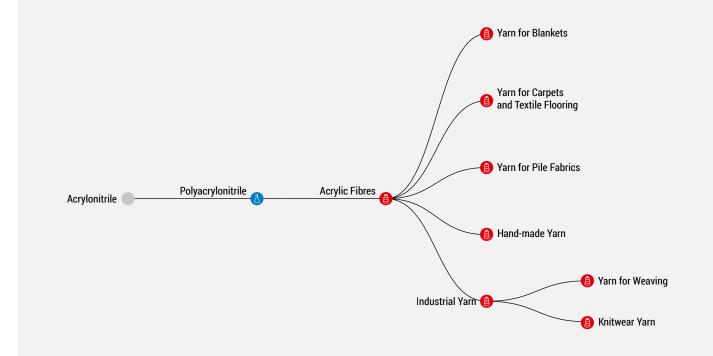


### **ACRYLIC**

Production chain integration from polymer to semi-finished products. Specific know-how in the Business Area Synthetic Fibres and Nonwovens. Value added: downstream technologies and applications.

## **CAPTION**

- Specialty Chemicals
- High Performance Polymers
- Synthetic Fibres and Nonwovens
- Products and Processes outside RadiciGroup







### RADICIGROUP FOR SUSTAINABILITY

2019-2020

From our motto "To be Glocal: global thinkig, local action" to the United Nations Sustainable Development Goals. RadiciGroup sustainability story is moving on along with the evolution of our Group.

New challenges are ahead, while important milestones have been achieved.

1997 To Be Glocal: global thinking, local action. 2003 The RadiciGroup Vision, Mission, and Values statements were formulated. 2003 RadiciGroup subscribed the Responsible Care® protocol. 2004 RadiciGroup published its first "Social Report" based on the standard of Gruppo di Studio Bilancio Sociale (GBS). 2010 The "RadiciGroup for Sustainability" project was born. 2011 The Group began performing Life Cycle Assessments on its products. Sustainability Report 2011 obtained external assurance at the Global Reporting Initiative (GRI) B+ Application Level. 2012 Three specific Product Category Rules (PCRs) drafted by RadiciGroup became industry models for the textile fibres 2013 and plastics industries. 2013 RadiciGroup, through Radici Chimica SpA, became the first chemical group in Europe to obtain OEF and PEF certificates of conformity. 2014 RadiciGroup, through Radici Novacips SpA, achieved its EPD Process Certification. Eco-Design projects were launched. RadiciGroup, achieved EPDs through Radici Novacips for Radilon®, Heramid® and Recycling Service, and through 2015 Radici Fil for Radifloor®. 2018 RadiciGroup published its 3rd-party certified Sustainability Report according to the most advanced GRI Standards.

RadiciGroup is in the front line for circular economy projects and works for the implementation of SDGs.



## RADICIGROUP PRODUCTS WITH A LIMITED ENVIRONMENTAL IMPACT



Manufactured using recycled raw materials: such materials, in the light of circular economy, find a second life after a mechanical recycling process and turn into high performance polymers.

Heramid®: PA6 and PA6.6 High Performance Polymers

r-Starlight®: polyester textile yarn r-Radyarn®: polyester textile yarn



Manufactured using clean energy, mainly hydroelectric power.

Radipol®: PA6, PA6.6 e PA6.10 polymers

Radilon®: PA6 e PA6.6 High Performance Polymers Heramid®: PA6 and PA6.6 High Performance Polymers

Radifloor®: PA6 and PA6.6 BCF yarn Radigreen®: PA artificial grass yarn Radilon® staple fibre®: PA6 staple Radilon®: PA6 and PA6.6 textile varn Dylar®: spunbound nonwovens



Manufactured using biopolymers obtained from renewable source materials not in competition with vegetable food cultivations.

Radipol® 6.10: PA6.10 Based polymer

Radilon® D: PA6.10-based High Performance Polymers

Radilon® 6.10: PA6.10-based textile yarns dorix® 6.10: PA6.10-based staple fibre Biofeel®: bio-based textile varns Radifloor® 6.10: bio-based BCF yarn CornLeaf: Ingeo™ polylactic acid (PLA) yarn



Solution-dved, saving water and energy thanks to dyeing pigments added directly during the polymer extrusion phase.

Radifloor®: PA6 BCF yarn

Radifloor® 6.10: bio-based BCF yarn dorix®: PA6 and PA6.10 staple

Radilon® staple fibre: PA6 and PA6.10 staple Radilon®: PA6, PA6.6 and PA6.10 textile yarn Radyarn®/Starlight®: polyester textile yarn

r-Radyarn®/r-Starlight®: recycled polyester textile yarn

Biofeel®: bio-based textile yarns

CornLeaf: Ingeo™ polylactic acid (PLA) yarn

Radigreen®: synthetic grass yarn **Dylar**®: spunbound nonwovens



Recyclable products which, in a circular economy perspective, can be used as secondary raw materials after a recycling process.

All products



### THE RADICI WORLD STRUCTURE

PERSONNEL

### 4,100 workers

The Radici World was founded in the 20's with the first trading activities of household textiles. Today it includes manufacturing and trading companies operating in the textile machinery sector, in energy production and trading, along with the business areas of RadiciGroup: Specialty Chemicals, High Performance Polymers and Synthetic Fibres and Nonwovens.



**GEOGREEN** 

Geogreen is an Italian company founded in 2000 as RadiciGroup's sole energy provider, it is one of the leading suppliers of integrated products and services from the supply of electric power, to the production of hydroelectric and thermoelectric energy (cogeneration) and the development of projects and businesses in the biofuel, biomass, photovoltaic and thermal solar energy, and gas sectors. Power production and supply is Geogreen's core business.

#### www.geogreen.it



HOTEL SAN MARCO

Situated in the heart of Bergamo, Hotel San Marco is a prestigious hotel featuring private suites and rooms with the most up-to-date comforts. The hotel facilities include well-appointed rooms for meetings, receptions and incentive events. On the top floor of the hotel is the famous Roof Garden Restaurant.

#### www.hotelsanmarco.com



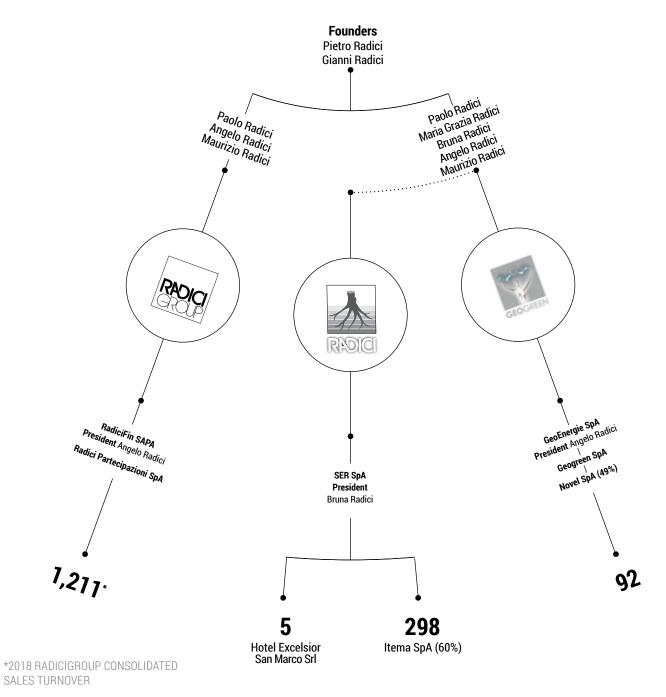
ITEMA

Itema is a leading supplier of advanced weaving solutions – state-of-the-art looms, spare parts and fully integrated services – and has played a key role in the history of the Italian textile machinery industry. ITEMA Group was born out of the merger of the well-known textile machinery brands Somet, Vamatex and Sulzer.

The Group is headquartered in the Seriana Valley in the province of Bergamo, Italy – the birthplace of great names in the Italian textile industry –, and is the only manufacturer in the world to produce weaving machines with the top three shuttleless weft insertion technologies: rapier, airjet and projectile. Itema produces its highly technological weaving machines in its main production sites of Colzate and Vilminore di Scalve (Italy), Zuchwil (Switzerland) and Shanghai (China). It also has sales offices in India, Japan, Hong Kong and Dubai.

Since 2017 Itema launched a diversification strategy, acquiring 61% of the shares of Lamiflex S.p.A., a leading company as for the supply of highly technological, composite-based products, and acquiring also minority shares of NoeCha, a company offering innovative solutions as for large format digital printing.

www.itemagroup.com



(Millions of Euro)

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### INDIRIZZI / ADDRESSES

ARGENTINA

### CORDONSED ARGENTINA S.A.

Av. Luis M. Campos 1061 Piso 3° A C1426BOI CABA Argentina Ph: +54 (9) 115778-2531/32/33 e-mail: info.cordonsed@radicigroup.com www.radicigroup.com/fibres

Sale of: acrylic staple fibre, top and yarn (Crylor®).

Commercializzazione di: fiocco, top e filati di fibra acrilica (Crylor®).

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### **CORDONSED ARGENTINA S.A.**

Islas Malvinas 2961 V9420AJJ Rio Grande - Tierra del Fuego Argentina Ph. +54 (0) 29 64-431227 e-mail: info.cordonsed@radicigroup.com www.radicigroup.com/fibres

Production of: acrylic staple fibre, top and yarn (Crylor®).

Produzione di: fiocco, top e filati di fibra acrilica (Crylor®).

BRAZIL

### RadiciFibras Ltda

Brazil, Sao José dos Campos (SP) BR - 12211-180 - Rua Pedro Rachid, 846 Ph. +55 12 390964 12 Fax +55 12 392205 92

e-mail: fashion.fibres@radicigroup.com www.radicinylon.com.br www.radicigroup.com/fibres

Production and sale of: beams for weaving, warp-knitting and warping. Textured PA6 yarns for circular knitting (Radilon®). Acrylic fibres staple, Tow and Top (Crylor®).

Produzione e commercializzazione di: subbi per tessitura, maglia in catena e ordito. Filo testurizzato di PA6 per maglieria circolare (Radilon®). Fiocco, Tow e Top di fibre acriliche (Crylor®).

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### Radici Plastics Ltda

Brazil, Araçariguama - Sao Paulo BR - 18147-970 - Rua Giuseppe Marchiori, 497 Ph. +55 11 41366500 e-mail: brasil.plastics@radicigroup.com www.radicigroup.com/pt

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), polyolefin-based compounds (Radilene®), special PA6.6-based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), compound a base di poliolefine (Radilene®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

#### CHINA

### Radici Chem (Shanghai) Co., Ltd.

China, Shanghai

CN - 200235 - Room 1322, YunSun Tower, No. 2025 East Zhongshan Rd., Xuhui District

Ph. +86 21 64389210 / 64389896

Fax +86 21 64389960

e-mail: Info.radicichemshanghai@radicigroup.com www.radicigroup.com/chemicals

Sale of: PA6 and PA6.6 polymers (Radipol®), adipic acid, dicarboxylic acids mixture -AGS-, dicarboxylic acid esters (Radichem®). PA6 and PA6.6 textile fibres (Sale of: Radilon® - Raditeck® - Radifloor®).

Commercializzazione di: polimeri di PA6 e PA6.6 (Radipol®), acido adipico, miscela di acidi dicarbossilici -AGS-, esteri di acidi dicarbossilici (Radichem®). Fibre tessili in PA6 e PA6.6 (Commercializzazione di: Radilon® - Raditeck® - Radifloor®).

### • • • • • •

### Radici Plastics (Suzhou) Co., Ltd.

China, Suzhou
Jiangsu Province - No. 49 Ping Sheng Road, SIP - CN 215126
Ph. +86 512 62952290, Fax +86 512 62952291
e-mail: china.plastics@radicigroup.com
www.radicigroup.com/cn

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), polyolefin-based compounds (Radilene®), special PA6.6 -based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), compound a base di poliolefine (Radilene®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

#### CZECH REPUBLIC

### **Logit Sro**

Czech, Republic Podborany CZ - 44101 - Hlubany, 119 Ph. +420 415 237911

Fax +420 415 237912

e-mail: logit@radicigroup.com www.radicigroup.com/fibres

Production of: twisted, heat-set and air-entangled PA BCF carpet yarns (Radifloor®).

Produzione di: filati BCF per moquette in PA ritorti, interlacciati e termofissati (Radifloor®).

#### **FRANCE**

#### Radici Plastics France SA

France, St. Priest F - 69800 - 65, Rue du Dauphiné Ph. +33 4 72782090

Fax +33 4 72782089

e-mail: france.plastics@radicigroup.com www.radicigroup.com/plastics

Sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), polyolefinbased compounds (Radilene®), special PA6.6 -based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), compound a base di poliolefine (Radilene®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

To Be Glocal 2019

#### **GERMANY**

### Radici Chemiefaser GmbH

Germany, Selbitz D - 95152 - Hofer Straße 23 Phone +49 92 80981030, Fax +49 92801513 e-mail: fashion.fibres@radicigroup.com www.radicigroup.com/fibres www.radicigroup.com/dorix

Production and sale of: raw and solution-dyed PA6 staple fibre (dorix®) - with a wide variety of counts, from very fine (14 dtex) up to 300 dtex - and solution dyed PA6 filament yarn.

Produzione e commercializzazione di: fiocco di PA6 greggio e tinto in massa, (dorix®) disponibile in una vasta gamma di titoli, dai più fini, 14 dtex, sino a 300 dtex e filo di PA6 tinto in massa.

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#### Radici Chemiefaser GmbH

Germany, Vertriebsbuero Tamm D - 71732 - Hauptstrasse, 74 Phone +49 7141 200005, Fax +49 7141 200004 e-mail: fashion.fibres@radicigroup.com www.radicigroup.com/fibres www.radicigroup.com/dorix

Sale of: raw and solution-dyed PA6 staple fibre (dorix®, Radilon®) for textile flooring applications, automotive and apparel. PA6 and PA6.6 yarn for texturizing, circular and warp knitting, hosiery and socks, narrow fabrics and weaving (Radilon®) for apparel, technical textiles and the automotive sector. PET micro and multi filaments textured and flat, raw and dyed yarns for for apparel, technical textiles and the automotive sector (Radyarn®).

Commercializzazione di: fiocco PA6 greggio e tinto in massa (dorix®, Radilon®) per impiego pavimentazione tessile, tessile-tecnico, automotive ed abbigliamento. Filo di PA6 e PA6.6 per settori testurizzazione, maglieria, calzetteria, nastri e tessitura (Radilon®) ad impiego tessile-abbigliamento, tessile-tecnico ed automotive. Filo di poliestere microbava, multibava, speciali in versione testurizzata, liscia, greggio e tinto per impiego tessile-abbigliamento, tessile-tecnico, arredamento e settore automotive (Radyarn®).

### Radici Chimica Deutschland GmbH

Germany, Tröglitz D - 06729 - Dr. Bergius Strasse, 6 Ph. +49 3441 8298122 Fax +49 3441 8298124

e-mail: info.radicichimicatroeglitz@radicigroup.com www.radicigroup.com/chemicals

**Production of:** adipic and nitric acid, cyclohexanol/cyclohexanone mixture, dicarboxylic acids mixture -AGS-, dicarboxylic acid esters (Radichem®).

Produzione di: acido adipico e acido nitrico, miscela di cicloesanolo/cicloesanone, miscela di acidi dicarbossilici -AGS-, esteri di acidi dicarbossilici (Radichem®).

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#### Radici Plastics GmbH

Germany, Hamburg D - 20095 - Glockengiesserwall 2 Ph. +49 40 3095410 Fax +49 40 30954199 e-mail: rplde.info@radicigroup.com www.radicigroup.com/de

### **Radici Plastics GmbH (Production site)**

Germany, Lüneburg D - 21337 - Elso-Klöver-Strasse,10 Ph. +49 4131 95007/0 Fax +49 4131 95007/20 e-mail: rplde.lueneburg@radicigroup.com

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), special PA6.6 - based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

HUNGARY

### **Lurotex KFT**

Hungary Hunyadi Janos H - 33-9971 - P.F. 41 Szentgotthard Ph. +36 94 552650 Fax +39 36 94 380141 e-mail: sales.lurotex@radicigroup.com

Production of: fabrics for outerwear and linings, PA6, PA6.6 and PET microfibres fabrics (Radici Tessuti®).

Produzione di: tessuti in microfibra di PA6, PA6.6, PET per abbigliamento e fodere (Radici Tessuti®).

INDIA

### Radici Plastics India Pvt. Ltd.

India New Delhi IN – 110015 - 501, DLF Tower, Shivaji Marg Ph. +91 11 41638 170 e-mail: info.plastics@radicigroup.com www.radicigroup.com/plastics

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), special PA6.6-based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

ITALY

### **Noyfil SpA**

Italy, Andalo Valtellino (SO)
Via Orobie, 4 - IT - 23014
Ph. +39 0342 699111
Fax +39 0342 684073
e-mail: petvarn fibres@radicigrous

e-mail: petyarn.fibres@radicigroup.com www.radicigroup.com/fibres www.radicigroup.com/radyarn

Production and sale of: continuous polyester yarns, semi-dull and bright, flat, textured, sized beams for weaving and warp-knitting beams. Micro and multi filaments, high shrinkage, with trilobal and round sections. Special yarns: differentiated filaments counts, micro and multi filaments textured and flat, flame retardant yarns; air-jet textured and flat hollow fibres; textured and flat bi-component yarns. (Radyarn®).

Produzione e commercializzazione di: fili continui di poliestere semiopachi e lucidi, lisci e testurizzati, subbi incollati per tessitura e subbielli per indemagliabile. Filati microbava, multibava ad alto rientro, a sezione circolare e trilobata. Filati speciali: a bave differenziate, micro e multibava testurizzati e lisci, ignifughi; fibre cave testurizzate ad aria e lisce, filati bicomponenti testurizzati e lisci (Radyarn®).

Novfil SpA

Italy, Chignolo d'Isola (BG)
IT - 24040 - Via Verdi, 1
Ph. +39 035 905252
Fax +39 035 905112
e-mail: petyarn.fibres@radicigroup.com
www.radicigroup.com/fibres
www.radicigroup.com/radyarn

Production and sale of: texturing, air-jet texturing (taslan), twisting, air-mingling and warping of polyester yarns raw white, dope and yarn dyed suitable for weaving and knitwear (Radyarn®). Post-consumer recycled PET yarns (r-Radyarn®).

Produzione e commercializzazione di: filo poliestere testurizzato, taslanizzato, ritorto, ordito greggio, tinto in massa e tinto in filo per tessitura e maglieria (Radyarn®).

Filati di poliestere riciclato post consumer (r-Radyarn®).

### Radici Chimica SpA

Italy, Novara IT - 28100 - Via G. Fauser, 50 Ph. +39 0321 693111 Fax +39 0321 693201

e-mail: info.radicichimicanovara@radicigroup.com www.radicigroup.com/chemicals

Production of: PA6.6, PA 6.10 and 6.12 polymers (Radipol®), adipic and nitric acid, hexamethylendiamine, 6.6 salt, dicarboxylic acids mixture -AGS-, dicarboxylic acid esters (Radichem®).

Produzione di: polimeri di PA6.6 (Radipol®), PA 6.10 e PA6.12 (Radipol®) acido adipico e acido nitrico, esametilendiammina, sale 6.6, miscela di acidi dicarbossilici -AGS-, esteri di acidi dicarbossilici (Radichem).

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### Radici Fil SpA

Italy, Casnigo (BG)
IT - 24020 - Via Europa, 41
Ph. +39 035 736000
Fax +39 035 736350
e-mail: flooring.fibres@radicigroup.com
www.radicigroup.com/fibres

Production and sale of: PA6 polymers, PA BCF yarns for carpeting, raw, space dyed, solution dyed yarns at different affinities (Radifloor®). PA6.6 HTY yarns for technical uses (Raditeck®).

Produzione e commercializzazione di: polimeri di PA6, filati BCF di PA per moquette, filato greggio, space dyed, solution dyed in diverse affinità (Radifloor®). Filati PA6.6 ad alta tenacità per uso tecnico (Raditeck®).

### Radici Novacips SpA

Italy, Chignolo d'Isola (BG) IT - 24040 - Località Bedeschi, 20 Ph. +39 035 4991311, Fax +39 035 4994386 e-mail: italia.plastics@radicigroup.com www.radicigroup.com/plastics

### Radici Novacips SpA

Italy, Villa d'Ogna (BG) IT - 24020 - Via Provinciale, 1331 Ph. +39 0346 22453, Fax +39 0346 23730 e-mail: italia.plastics@radicigroup.com www.radicigroup.com/plastics

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), special PA6.6 – based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

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### Tessiture Pietro Radici SpA

Italy, Gandino (BG) - IT - 24020 - Via Ugo Foscolo, 152 Ph. +39 035 715911, Fax +39 035 715999 e-mail: tessitureradici@radicigroup.com www.radicigroup.com/en/products/fibres-and-nw/dylar/company www.radicigroup.com/en/products/fibres-and-nw/radigreen/company

Production and sale of: Dylar® spun bonded non-woven fabrics for industrial applications, Radigreen® yarn for synthetic grass developed for outdoor and indoor playing fields and for landscaping.

Produzione e commercializzazione di: non tessuti Dylar® spun bonded per applicazioni industriali, produzione di filo Radigreen® per erba sintetica, studiato per campi sportivi esterni ed interni e per uso decorativo-landscape.

### Radici Yarn SpA

Italy, Villa d'Ogna (BG) - IT - 24020 - Via Provinciale, 1125 Ph. +39 0346 89111, Fax +39 0346 23396 e-mail: fashion.fibres@radicigroup.com www.radicigroup.com/fibres

Production and sale of: PA6 polymer and staple fibre, PA6 and PA6.6 (POY, FOY) yarn for apparel and technical applications-texturizing, circular and warp knitting, hosiery and socks, narrow fabrics and weaving (Radilon®), production of bio-based polyamide for apparel and sports applications (Biofeel®).

Produzione e commercializzazione di: polimero e fiocco di PA6, filo di PA6 e PA6.6 (POY ed FOY) per impiego tessile-abbigliamento e settore tecnico-testurizzazione, maglieria, calzetteria, nastri e tessitura (Radilon®), produzione di poliammide bio-based per l'abbigliamento e il settore sportivo (Biofeel®).

### Radici Yarn SpA

Italy, Ardesio (BG) - IT - 24020 - Via Casa More, 12 Ph. +39 0346 34147, Fax +39 0346 33707 e-mail: fashion.fibres@radicigroup.com www.radicigroup.com/fibres

Production of: warped PA6 and PA6.6 yarn for weaving and warp knitting (Radilon®).

Produzione di: filo di PA6 e PA6.6 ordito per tessitura e maglieria indemagliabile (Radilon®).

#### **MEXICO**

### Radici Plastics Mexico S. de R.L. de C.V.

Mexico, Ocotlán Jalisco

MX - Av. Francisco Zarco 2688 C.P. 47810 - Col. Loma Bonita

Ph. +52 392 923 2390

e-mail: info.plastics@radicigroup.com www.radicigroup.com/plastics

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), polyolefin – based compounds (Radilene®), special PA6.6 – based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), compound a base di poliolefine (Radilene®), tecnopolimeri speciali su base poliammidica PA 6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

#### ROMANIA

#### S.C. Yarnea S.R.L.

Romania, Savinesti (NT) R0 - 617410 - 5, Gheorghe Caranfil street Ph. +40 233 205 000 Fax +40 233 205 180 e-mail: info.yarnea@radicigroup.com www.radicigroup.com/fibres

Production of: PA 6 and PA6.6 textured (DTY), FDY, twisted (textured and FDY), PA6 spinned (LOY), warped (LOY +FDY) textile yarns (Radilon®).

Produzione di: fili tessili di PA6 e PA6.6 testurizzati (DTY), FDY, ritorti (testurizzati e FDY). Fili di PA6 (LOY), orditi (LOY+FDY) (Radilon®).

SPAIN

### Radici Plastics Iberica SL

Spain, Barcelona ES - 08029 - Avda. Josep Tarradellas, 130 5°1ª Ph. +34 93 5416500 Fax +34 93 4943326 e-mail: iberica.plastics@radicigroup.com

e-mail: iberica.plastics@radicigroup.com www.radicigroup.com/plastics

Sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), special PA6.6 – based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

**SWITZERLAND** 

### **Noyfil SA**

Switzerland, Stabio CH - 6855 - Via Gaggiolo, 31 Ph. +41 91 6416141 Fax +41 91 6472806 e-mail: petyarn.fibres@radicigroup.com www.radicigroup.com/starlight

Production and sale of: POY dope dyed or raw, drawn yarn dope dyed or raw; POY for stretch yarns (PBT); additional functionalities: UV resistant, antibacterial and flame retardant (Starlight®). Yarn from post-consumer recycled polymer (r-Starlight®) and bio-based polymer (CornLeaf - Ingeo™).

Produzione e commercializzazione di: POY tinto massa o greggio, filo stirato tinto massa o greggio, POY (PBT) per fili elasticizzati; funzionalità additivabili: resistenza agli UV, antibatterica e flame retardant (Starlight®).

Fili da poliestere riciclato post-consumo (r-Starlight®) e da biopolimeri (Cornleaf - Ingeo™).

#### THE NETHERLANDS

### Radici Plastics B.V

The Netherlands, Born Verloren Van Themaatweg 9 - NL - 6121RG Ph. +31 464496221 e-mail: rplnl.info@radicigroup.com www.radicigroup.com/plastics

Production of: PA6, PA6.6 and copolymers (Radilon®, Torzen®).

Produzione di: PA6 e PA6.6 e copolimeri (Radilon®, Torzen®).

UNITED KINGDOM

#### Radici Plastics UK Ltd.

United Kingdom, Wakefield 7 Langham House - 148 Westgate - WF2 9SR Ph. +44 (0)20 7431 4554 e-mail: uk.plastics@radicigroup.com www.radicigroup.com/plastics

Sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), special PA6.6 – based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

### Radici Plastics USA Inc.

USA, Wadsworth
OH - 960 Seville Road - 44281/0179
Ph. +1 330 336 7611
Fax +1 330 335 5029
e-mail: usa.plastics@radicigroup.com
www.radicigroup.com/plastics

Production and sale of: PA6, PA6.6 and high performance polyamides such as PA6.10, PA6.12 and PPA and copolymers (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPEs (Heraflex®), POM (Heraform®), polyolefin-based compounds (Radilene®), special PA6.6 – based compounds (Radistrong®), high performance PPS-based compounds (Raditeck®).

Produzione e commercializzazione di: PA6 e PA6.6, poliammidi ad alte prestazioni e copolimeri a base di PA6.10, PA6.12 e PPA (Radilon®, Heramid®, Radiflam®, Torzen®), PC/ABS - ABS (Radiblend®), PC (Radilux®), PBT (Raditer®), TPE (Heraflex®), POM (Heraform®), compound a base di poliolefine (Radilene®), tecnopolimeri speciali su base poliammidica PA6.6 (Radistrong®), compound a base PPS ad alte prestazioni (Raditeck®).

#### HOLDING COMPANIES

### RadiciFin SAPA

Via Ugo Foscolo, 152 IT - 24024 Gandino (BG) Phone +39 035 715411, Fax +39 035 715477 e-mail: info@radicigroup.com www.radicigroup.com - www.radici.com

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### Radici Partecipazioni SpA

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### Radici Partecipazioni SpA

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### S.E.R. SpA - Società Elettrica Radici SpA

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### Itema SpA

Via Cav. Gianni Radici, 4 IT - 24020 Colzate (BG) Phone + 39 035 7282111 Fax + 39 035 740505 www.itemagroup.com

### GeoEnergie SpA

Via Ca' Antonelli. 55 IT - 24024 Gandino (BG) Phone +39 035 715811, Fax +39 035 715812 e-mail: geoenergie@geogreen.it www.geogreen.it

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#### Hotel Excelsior S. Marco

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