

## RadiciGroup automotive team visit Jaguar Land Rover: serving customers and sustainable innovation.

**BERGAMO, 24 MARCH 2016** - Last January, RadiciGroup was invited by [Jaguar Land Rover](#) to the *Gaydon Design and Engineering Centre* to present its



range of automotive engineering plastics, synthetic fibres and nonwovens to the technical staff of the UK auto giant. Discussions around the thematic tables covered topics like innovation, material specificity and performance, customer-tailored services, design and eco-design, material recyclability and systemic sustainability actions.

On 27 and 28 January 2016, RadiciGroup was an invited guest at the [Jaguar Land Rover](#) Design and Engineering Centre in Gaydon, Warwickshire (UK), for a two-day gathering to exchange ideas and knowledge. The British car manufacturer recently showcased its latest technologies at the [Geneva Motor Show](#) (03-13 March 2016).

During the presentation of its product portfolio for automotive applications, RadiciGroup engineers participated in an open dialogue with the numerous Jaguar Land Rover designers, engineers and technicians present at the meeting. Topics of discussion included: characteristics and performance of engineering plastics, synthetic fibres and nonwovens – all 100% recyclable – for automotive applications, opportunities for innovation and eco-design, actions on the sustainability front, and custom-tailored services for customers.

“During the two days at the Jaguar Land Rover centre, we had numerous in-depth one-to-one discussions on technical issues,” said **Erico Spini**, marketing and application development director Europe of RadiciGroup Plastics. “We focused mainly on aspects such as the lightweighting of auto

components using appropriate technologies and specialty polyamides, the possibility of realizing exterior parts with excellent surface appearance, the use of continuous fibres capable of delivering superior impact characteristics, and thermally conductive products. What's more, the characteristics and performance of car body parts and under-the-bonnet supports.”

A wide range of nylon engineering plastics for automotive applications were brought to the attention of the Jaguar Land Rover designers and engineers: from RADILON® HHR and RADILON® XTreme high-temperature resistant specialties to RADISTRONG® long-fibre polyamides, RADILON® D bio-engineering plastics and RADILON® DT nylon 6.12 specialties.

In addition to its range of engineering plastics, RadiciGroup presented a complete offering of its other diversified products for automotive applications: a wide portfolio of **synthetic fibres** – *various brands of polyamide yarn and staple fibre (Radilon®, DORIX® and DORIX 6.10, Radifloor®, Raditeck®) and polyester yarn (from traditional Radyarn® to r-Radyarn® recycled yarn)* – and **nonwovens** (Dylar®).

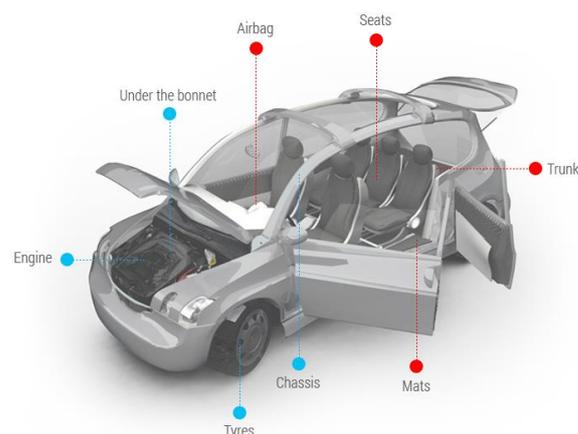
“From our face-to-face discussions with Jaguar Land Rover’s engineers,” said **Arturo Andreoni**, *marketing and application development director of Radifloor®*, “it was clear that obtaining a systemic view and direct knowledge of the properties and performance characteristics of the materials for their intended automotive applications was seen by them as added value. This was demonstrated by the many questions asked about our yarns and the innovations our Group was introducing to the market, particularly from the viewpoint of sustainability. Among the main topics of discussion were: recycling, use of biopolymers and recycled materials, and how to achieve maximum technical performance of final products.”

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For more information on the RadiciGroup automotive product portfolio and sustainability initiatives, visit our website and discover

[\*\*RadiciGroup in the automotive world.\*\*](#)

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# RadiciGroup for Sustainability

Some of our performance indicators...

## USE OF WATER (m<sup>3</sup>)

**63%**  
Water savings



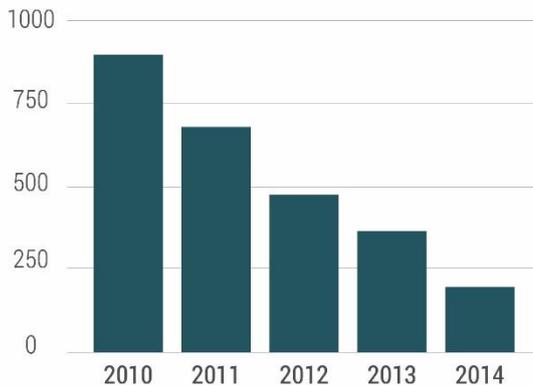
## ELECTRIC ENERGY CONSUMPTION (GJ)

RadiciGroup  
**45.3%**  
Renewable sources used



■ Renewable sources ■ Non Renewable sources

## DIRECT EMISSIONS (t CO<sub>2</sub>eq/1000)



**-78%**  
Direct emissions  
Over 5 years

## TOTAL HOURS OF TRAINING Breakdown by category



■ Management  
■ Middle Management  
■ White Collars  
■ Blue Collars

— Men  
— Women  
— Hours/employee

**12.415**  
total hours of training

## RADICIGROUP FOR SUSTAINABILITY. OUR CONTRIBUTION TO ECO-DESIGN WITH EPD

- **ECO-DESIGN** is the main driver for the growing demand of reliable information on environmental impact of products
- **Environmental Product Declaration (EPD)** is the reference model chosen by RadiciGroup to ensure that accountable, certified and specific data are provided to customers
- RadiciGroup R&D takes into account the technical performance as well as the **environmental performance** of our compounds already at the early stage of development
- We can select the formulation with **lower impact**, and directly release its **certified EPD**

We can support our partners in the selection of the **best solution** with respect to:

➡ RECYCLABILITY ➡ TECHNICAL PERFORMANCE ➡ ENVIRONMENTAL IMPACT

# RadiciGroup's *portfolio* of *automotive products* ...

The RadiciGroup product portfolio for the automotive industry ranges from **engineering plastics to staple fibres and nonwovens**. It comprises a vast assortment of products, which are the result of the Group's outstanding chemical know-how gained through more than 70 years of experience, complemented by all-around technical service. The Group's collaboration and support begins during the initial design and development stages. Flexibility, maximum customization, quality, fast delivery times, and sustainability: that is what customers get when they choose RadiciGroup. It also means that they can count on a reliable partner, an industrial multinational with competence and know-how acquired through its long experience in polyamide production. RadiciGroup is able to design and develop the best solutions for the automotive sector, and its products can be found in numerous applications. Below are just a few examples.

## OUR ENGINEERING PLASTICS for...



**Intercooler end-caps, turbocharger resonators, fuel line fittings, pressurized lines, brake vacuum lines, fuel feed lines, under-the-bonnet components, engine supports, gearbox supports, car seat frames, radiator tanks, pedal support brackets...**



# OUR SYNTHETIC FIBRES AND NONWOVENS for...

radilon® **dorix**® *Radifloor*® raditeck® *-Radyarn-* DYLAR®

Upholstery for car seats, door panels, trunk and passenger compartment headliner. Floor carpets, airbag fabrics, tyre cord, drive belts, hydraulic hose reinforcement, sunblinds, seat covers, sound insulation panels, car covers...




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**RADICIGROUP** –Production and sales sites in Europe, North America, South America and Asia. Diversified businesses focusing on chemicals, plastics, synthetic fibres and nonwovens. Know-how. Vertically integrated nylon production. Constant commitment to guaranteeing its customers quality, sustainable innovation and reliability. All this is RadiciGroup, a leader in nylon chemicals. RadiciGroup products are used in applications such as: APPAREL – FURNISHINGS – AUTOMOTIVE – CONSUMER GOODS – CONSTRUCTION – ELECTRICAL AND ELECTRONICS – HOUSEHOLD APPLIANCES – SPORT. RadiciGroup, with its Business Areas, is part of a larger industrial group that also includes textile machinery and energy.

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