



HIGH PERFORMANCE POLYMERS PRESS RELEASE

Bergamo, 14 July 2020

Radilon® Mixloy, a new range of PA blends

Innovative solutions for automotive, consumer goods and E&E

To maximize polymer performance in final products by mixing polymers with different properties was the goal of RadiciGroup High Performance Polymers. The result is its new specialty range of products with the brand name Radilon® Mixloy. The matrix material for these new innovative products is polyamide, the flagship product of RadiciGroup, the only industrial group in Europe today capable of controlling its entire production process, from polymer chemicals to engineering polymers, including end-of-life recycling. Totally vertically integrated production allows the Group to realize customer-tailored formulations and develop innovative projects.

Specifically, Radilon® Mixloy products are made by blending polymers readily available on the market today through a compatibilization technology developed by the Group, which makes naturally immiscible raw materials miscible.

“At the moment, development is focused on certain types of alloys,” pointed out **Nicolangelo Peduto, Research and Development manager of RadiciGroup High Performance Polymers**, *“but, in the future, we plan to add other products, with the goal of achieving properties that are simply not attainable with individual polymers. One of our objectives is to be able to meet the demand coming from market niches. Furthermore, thanks to our upstream vertically integrated polyamide production, we have at our disposal a number of different types of polymers that give us design freedom in formulating the new Radilon® Mixloys.”*

The base materials for the Radilon® Mixloy product offering developed so far are PA 6, PA 6.6 and long-chain PAs, some of which are made from bio-source materials, thus increasing the added value of the products.

Radilon® Mixloy products feature high-performance properties, including thermal resistance, mechanical resistance and surface appearance. They also have low density, dimensional stability and excellent ease of processing. Other promising advantages of these blends are low water absorption, improved tribological properties and low permeability (barrier effect).

There are many fields of application for **Radilon® Mixloy** products. In the **automotive sector**, they are ideal not only for auto interiors, where the most frequently requested characteristics are appearance and chemical and thermal resistance, but also for exterior body and engine compartment parts.

Regarding the **consumer and industrial goods** markets, the new blends can be used for end applications, such as sporting goods, household appliances and goods, and electronic equipment housings. There are many innovative uses for **Radilon® Mixloy** blends – for instance, FDM 3D printing – on account of their ease of processing, low water absorption and minimal shrinkage.

RADICIGROUP – With approximately 3,100 employees, sales revenue of EUR 1,092 million in 2019 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, high performance engineering polymers and advanced textile solutions, including nylon yarn, polyester yarn, yarn made from recovered and bio-source materials, nonwovens and personal protective equipment for the healthcare field. These products are the result of the Group's outstanding chemical expertise and vertically integrated polyamide production chain and have been developed for use in a variety of industrial sectors, such as: AUTOMOTIVE – ELECTRICAL AND ELECTRONICS – 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 Advanced Textile Solutions** –, RadiciGroup is part of a larger industrial group that also includes textile machinery (ITEMA), energy (GEOGREEN) and hotel (SAN MARCO) businesses. RadiciGroup is the main sponsor of **Atalanta B.C.** for the **UEFA Champions League** 2019-2020.
