Frankfurt, 16-19 November 2021

RadiciGroup filaments for additive manufacturing

At Formnext 2021, RadiciGroup launches product offering for 3D printing

On the one hand, the rapidly evolving market of **additive manufacturing** and, on the other, the RadiciGroup High Performance Polymers business area with its **extensive experience in polymer compounding** and recognized skill at **optimizing materials** to meet the requirements of various applications: those were the factors that brought about the development of **Radilon® Adline**, a range of **3D printing** filaments based on special polyamide grades from the Group's Radilon® family.

RadiciGroup has chosen the **Formnext** fair – taking place in Frankfurt from 16 to 19 November (Stand 12.1 B94) – as the launchpad for its new proposals aimed at the needs of 3D applications. Indeed, Formnext is the international meeting point for suppliers and users of industrial 3D printing.

Radilon® Adline products are characterized by their **high performance** and are suitable not only for **prototyping**, but also for the **manufacture of functional parts**. They have also been tested with different open 3D printing systems to ensure the **ease of material processing**.

"The technical requirements of additive manufacturing technology are special and not so simple to meet with semicrystalline polymers," explained **Chiara Devasini, marketing & development project leader of RadiciGroup High Performance Polymers**. *"That is why the entire first phase in the development of the 3D printing project was dedicated to identifying the polyamides meeting such requirements. Specifically, we opted to focus on materials for fused filament fabrication (FFF) and succeeded in developing high technical content products based on PA6/66 copolyamides with a fusion point of 195°C, which makes them suited to most 3D printers."*

As of today, the RadiciGroup portfolio comprises **Radilon® Adline CS** and **Radilon® Adline CS CF**. The former is a PA6/66 copolymer featuring **high ease of use with 3D printing technology** and good surface appearance; it ensures effective interlayer adhesion and low warpage. The **CS CF version is carbon reinforced**, which not only ensures ease of printing but also provides the printed parts with higher performance in terms of modulus, stiffness and mechanical properties**.**

"Additive manufacturing is a rapidly evolving market," Ms. Devasini continued. *"Therefore, these first two grades will soon be followed by new materials with high technical performance and environmental friendliness, as well."*

The goal of RadiciGroup High Performance Polymers is the development of **innovative materials** with greater focus on **reducing environmental impact**.

New **Radilon® Adline** grades based on PA6 and polyamides obtained from renewable source materials are currently under development at RadiciGroup High Performance Polymers.

"*Our sales team is at the full disposal of customers interested in purchasing Radilon® Adline filaments,"* Ms. Devasini concluded. *"*Additionally, for the distribution of our filaments in Italy, we have established a partnership with additive manufacturing specialist Ciano Shapes, a company that immediately impressed us with its great professionalism and competence.

Click here for further information on RadiciGroup products for additive manufacturing.

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RadiciGroup High Performance Polymers is a multinational organization with the capacity to manufacture and supply engineering polymers (based on polyamide, polyester and other materials) around the globe, with the backing of a production and sales network across all continents, as well as research and development increasingly focused on high-performance polymers. The products of the RadiciGroup High Performance Polymers Business Area are primarily used for applications in the following sectors: automotive, electrical & electronics, water management, consumer goods and industrial goods. In 2019, the business area reported sales of EUR 393 million.

Ciano Shapes has been engaged in the area of additive manufacturing since 2014. The company specializes in 360° 3D printing services: from training in 3D modelling to the development of projects, prototypes and finished objects. Furthermore, **Ciano Shapes** is the official reseller of the best brands of 3D printers and 3D scanners available on the market, in addition to filaments, accessories and spare parts. *www.cianoshapes.com*

RADICIGROUP – With approximately 3,000 employees, sales revenue of EUR 1,019 million in 2020 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.

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