

PERFORMANCE PLASTICS PRESS RELEASE

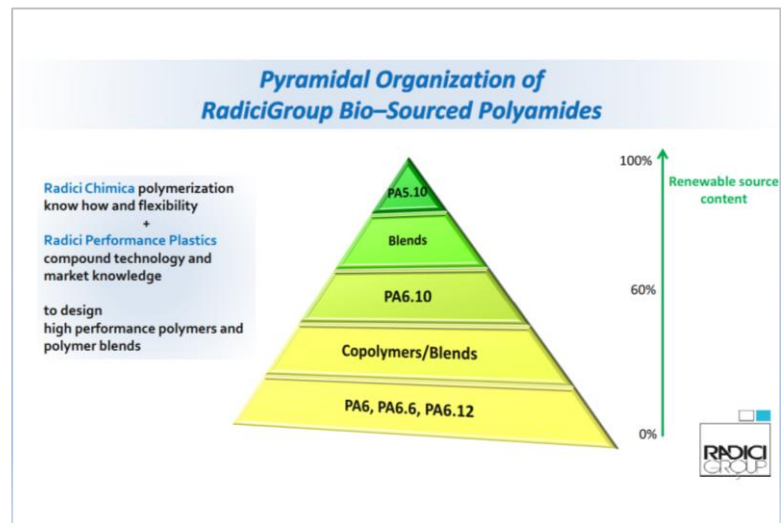
Cologne (Germany), 6-7 June 2017

Performance Polyamides 2017: Long-chain bio-polyamides among RadiciGroup products showcased

At the second edition of the prestigious conference, the Group presents its long-chain polyamides (LCPAs) for technical applications

RadiciGroup Performance Plastics' contribution to the second edition of ***Performance Polyamides 2017*** – taking place on 6 and 7 June 2017 in Cologne – is a presentation by **Erico Spini, marketing manager Europe**, and **Nicolangelo Peduto, R&D director**, in conjunction with an exhibition space dedicated to new products already available on the market. A must-attend event for all industry operators, the conference highlights the advances in the development of new high-performance polyamide formulations and applications.

More specifically, the two RadiciGroup specialists focus on PA 6.10, PA 6.12 and PA 5.10 long-chain polyamides, which not only meet the market's high technical performance needs, but also satisfy the growing demand for products obtained from total or partial biological source materials.



“Some of the products are totally new for RadiciGroup, while others have been in our portfolio for some time,” Erico Spini said. “However, the most important aspect we want to stress is that market demand is shifting towards new niche products and that RadiciGroup is ready to satisfy any specific customer request. We’ve also developed a number of solutions for the

automotive sector, the most demanding industry from the point of view of technical performance. Our solutions meet the need for both technical and sustainability performance.”

Indeed, RadiciGroup Performance Plastics has widened its **Radilon®** product range by adding a number of PA 6.10 (Radilon® D), PA 6.10/6.6 (Radilon® CD) and PA 6.12 (Radilon® DT) products, which are ideal for fuel, air or oil systems and feature excellent mechanical properties, excellent processability, low water absorption and good dimensional stability. Compared to traditional PA 6 and PA 6.6, these new polyamides also boast higher chemical resistance, a crucial property for certain automotive applications, as well as other uses.



Four Products Families				
Brand Name	Chemical Formula	Bio-Content	Distinctive Characteristics	Key Characteristics
Radilon® DT	PA612	0%	<ul style="list-style-type: none"> • Excellent resistance to zinc & calcium chloride solutions and in presence of stress-cracking • Bend recovery (monofilaments) • Easy processing 	<ul style="list-style-type: none"> • Good chemical resistance • Good hydrolysis resistance • Good thermal resistance • Good dimensional stability
Radilon® CD	PA610/PA66	50%	<ul style="list-style-type: none"> • Superior transparency and gloss • Good flexibility and toughness • Good thermoforming and low shrinkage • Easy processing • Cost competitive solutions (vs PA610) 	
Radilon® D	PA610	64%	<ul style="list-style-type: none"> • Bend recovery (monofilaments) • Easy processing by injection molding and extrusion 	
Radilon® PX	PA510	100%	<ul style="list-style-type: none"> • Easy flow • Excellent surface aspect 	

Moreover, RadiciGroup Performance Plastics is presently working on a prospective non-automotive field of application for these LPCA products: water management. Changes in the governing laws already place (or will place in the future) restrictions on the use of conventional polyamides. Excellent hydrolysis resistance, lower moisture absorption and superior processability make the LPCAs the ideal solution compared to other products already on the market.

Last, but not least, is the extrusion market. For this kind of applications, RadiciGroup has developed and obtained the required approval for Radilon® DT22, a **PA 6.12** product, whose excellent processability, elastic recovery and chemical resistance make it ideal for personal care applications (bristles for toothbrushes and mascara brushes). DT 22 was also developed to offer an intrinsic competitive advantage: improved abrasion resistance.



PA 6.10's special chemical resistance and elastic recovery properties, as well as its resulting increased durability, make it a commonly used material for the production of monofilament for industrial applications, such as paper mill equipment. A specifically formulated version of this PA, featuring high intrinsic burst resistance, can also be used for the manufacture of fuel system pipes.

“The intrinsic properties of LPCAs, which are combined with a specific formulation during the polymerization stage, give us the capability to satisfy an increasingly greater number of customer requirements,” Nicolangelo Peduto noted. “Our know-how of the polymerization process upstream of the production chain, together with our compounding technology downstream, is a powerful competitive advantage enabling us to keep pace with the trends of the market, which is always in search of products featuring ever higher performance.”



RADICIGROUP – With approximately 3,000 employees, sales revenue of EUR 946 million in 2016 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, engineering plastics, synthetic fibres and nonwovens. These products are the result of the Group's outstanding chemical expertise and vertical integration in the polyamide production chain, developed to be used 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, Performance Plastics 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 (SAN MARCO) businesses.

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