



PRESS RELEASE

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For immediate release



RadiciGroup at Fakuma 2012

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This year at the Fakuma international trade fair for plastics processing RadiciGroup is focusing its attention on some of its latest products:

- **RADILON® A RV350 HHR 3800 NER**, 35% glass-fibre-filled PA6,6 ideal for high-temperature applications in the **automotive, industrial and home appliance industries**.
- **RADILON® A RV500 RW339 NER** and **RADILON® S URV600LW 339 NER**, PA6,6- and PA6-based products that RadiciGroup has added to its range of engineering plastics for metal replacement.
- **RADILON® D**, a family of PA6,10 engineering plastics produced using 64% organic polymer made from a renewable resource material extracted from the seeds of the castor oil plant (*Ricinus Communis*). Ideal for injection moulding and extrusion.

After the 2012 NPE, CHINAPLAS, PLAST and MSV trade shows, the latest innovations in engineering plastics developed by RadiciGroup Plastics have now arrived at FAKUMA in Friedrichshafen, Germany. During this international plastics industry fair, RadiciGroup is showcasing three different types of engineering plastics that are ideal for the automotive, industrial and consumer goods sectors. The featured product lines are: **RADILON® A HHR (HIGH HEAT RESISTANT)** – PA6,6 engineering plastics with exceptional heat resistance to ageing in air at temperatures of up to 210°C –; **RADILON® A** and **RADILON® S for metal replacement** – high-performance PA6 and PA6,6 engineering plastics used as metal and light alloy replacements, even in very critical applications –; and **RADILON® D** – PA6,10 engineering plastics produced using 64% organic polymer (polymerized starting from hexamethylenediamine and sebacic acid).

RADILON® A RV350 HHR 3800 NER

35% glass-fibre-filled PA6,6 engineering plastics formulated using a special RadiciGroup technology that allows for drastically reducing the degradation of mechanical properties in air at temperatures of up to 210°C. This product line is offered as a solution for high-temperature, hot air applications, such as:

- Automotive and industrial – charge air cooler tank, turbo air duct, resonators and e-motor end laminates.
- Home appliances – parts requiring high heat resistance.



Recent hot-air ageing tests have demonstrated that, after up to 3,000 hours of exposure to temperatures of up to 210°C, the residual values for impact strength, tensile strength and strain at break were greater than 50% of the initial values.

Radilon® A RV350 HHR 3800 NER materials can be used as replacements for metals or special polymers (*PPS, PPA, PA4,6*).

RADILON® A RV500 RW339 NER and RADILON® S URV600LW 339

High-fill PA6,6 and PA6 engineering plastics for use as metal and thermoset replacements. Ideal for applications such as:

- Automotive – engine and battery mounts, gearbox housings and seat frames
- Industrial – structural parts

Metal replacement is a very important issue in many of the market sectors served by RadiciGroup Plastics. Hence RadiciGroup's focus on new developments to broaden its PA6 and PA6,6 engineering plastics range for metal and thermosetting material replacement.

Among the key products is the **Radilon® A RV500 RW339 NER** line of 50%-glass-fibre-filled PA6,6 engineering plastics developed to meet the demand for materials with improved mechanical properties, particularly in the presence of weld lines. The Radilon® A RV500 RW 339 materials feature mechanical properties that are 20% better than those of standard 50%-glass-fibre-filled polyamide 6,6s. The new

Radilon® products ensure greater mechanical resistance and strain at break, greater resistance and strain at break in the presence of weld lines, and greater impact strength in both wet and dry conditions.

Moreover, at Fakuma RadiciGroup is presenting its **Radilon® S URV600LW 339 NER** high-fluidity, heat-stabilized 60%-glass-fibre-filled PA6 engineering plastics with excellent surface appearance. These materials can be used as metal replacements in home appliances and industrial applications.

RADILON® D



A family of PA6,10 engineering plastics for injection moulding and extrusion produced using 64% organic polymer. The Radilon® D line originated from an ongoing RadiciGroup Plastics project aimed at sustainable innovation. These PA6,10-based products have a smaller environmental footprint, as well as properties that are equal, if not superior, to those of traditional polyamides.

Radilon® D products are polymerized from hexamethylenediamine and sebacic acid at the **Radici Chimica SpA** plant – part of the RadiciGroup Chemicals Business Area – and then compounded at various Radici Plastics production sites located all over the world.

Sebacic acid ...



Sebacic acid is a substance of biological origin obtained from castor oil plant seeds. The plant is cultivated in semi-arid environments, mostly in China and India. Not only does it not require irrigation – which means saving precious water resources – but also it does not compete with agricultural products for human consumption.

Radilon® D materials are ideal for applications such as:

- Fuel line connectors, pneumatic conduit, brake booster vacuum hoses, fuel lines, under-the-bonnet components and other moulded components requiring chemical resistance and dimensional stability

APPLICATIONS...



FOR MORE INFORMATION ON OUR PRODUCT PORTFOLIO:

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RADICIGROUP PLASTICS PRODUCT RANGE...

RadiciGroup Plastics products are used in applications not only in the automotive industry but also in the electrical/electronics, industrial and consumer goods sectors.

PA6, PA66, PA610
engineering polymers and copolymers



PA6, PA66 and PBT
flame retardants



PBT



PA6 and PA66 green products



POM



TPEs



IN THE PLASTICS INDUSTRY RadiciGroup is one of the most highly regarded manufacturers of polyamide and polyester engineering plastics. With six plants strategically located in Italy, Brazil, the United States, Germany and China, RadiciGroup Plastics offers processing, quality control, research and development, and technological development support. A network of sales units – with a strong presence in Italy, Germany, France, Spain, Great Britain, the USA, Brazil, China and India – makes RadiciGroup Plastics a truly global organization, capable of meeting the needs of its customers worldwide on a timely basis. WWW.RADICIGROUP.COM/PLASTICS

RADICIGROUP 3,500 employees. Production and sales sites in Europe, North America, South America and Asia. Diversified businesses focusing on chemicals, plastics and synthetic fibres. 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, sports, furnishings, automotive, electrical/electronics, home appliances and consumer goods. WWW.RADICIGROUP.COM RadiciGroup, with its Chemicals, Plastics and Synthetic Fibres Business Areas controlled by parent company Radici Partecipazioni SpA, is part of a larger industrial group that also includes textile machinery and energy businesses. WWW.RADICI.COM

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