

PRESS RELEASE

São Paulo, Brazil – 9 - 13 May 2011

For immediate release

RadiciGroup at Brasilplast 2011

Come and see us: Stand E79 - D78



The 13th Brasilplast, a leading international plastics industry fair, is taking place from 9 - 13 May in São Paulo, Brazil. During the event, RadiciGroup Plastics is presenting its product portfolio to the South American market.

The highlights are:

- **INNOVATIVE PRODUCTS FOR THE AUTOMOTIVE SECTOR**
- **ECO-COMPATIBLE ENGINEERING PLASTICS**
- **PA66 METAL AND LIGHT ALLOY REPLACEMENTS**

At Brasilplast 2011 RadiciGroup is presenting its engineering plastics product portfolio to the South American market: not only traditional engineering polymers and copolymers – PA 6 and 66 (Radilon® - Radiflam® - Heramid®), PET and PBT (Raditer®), TPEs (Heraflex®) and POM (Heraform®) – but also the most recent developments and innovations. The focus will be on new items for the automotive sector, eco-compatible engineering plastics and PA66 metal and light alloy replacements.

RadiciGroup Plastics has been operating in Brazil since 1997, when its production site, **Radici Plastics Ltda**, was set up in *Araçariquama*.

“South America is a very attractive market for us,” said **Danilo Micheletti**, *RadiciGroup Plastics COO for North America, South America and China*. “20% of our Plastics Area sales come from this geographical area. In 2010 Radici Plastics Ltda recorded a sales increase of 35% compared to the prior year, while the Brazilian economy had one of the highest growth rates in the world: 7.5%. The plastics sector is still growing at a good rate, continuing the trend of the last quarter 2010. Although we are concerned about the constant rise in raw materials prices, which has been going on for months now, we are optimistic about the future. We expect that the evolution of engineering plastics in the South American

market is moving to a new stage. It's changing from a developing sector to a one increasingly oriented to high-tech specialties. And our organization can efficiently meet these specialized needs.”

Global presence in the market, tried and tested know-how, high technology and quality. What is more, technological development support and vertically integrated nylon production. These strengths make RadiciGroup a reliable partner for all its customers.

At Brasilplast 2011 RadiciGroup is showcasing its most recent developments focusing on **innovation** and **sustainability**.



■ **INNOVATIVE PRODUCTS FOR THE AUTOMOTIVE SECTOR ...**

HIGHER HEAT RESISTANT PA66 ENGINEERING PLASTICS ...

Radilon® A RV350 HHR blk



A 35% glass fibre-filled PA66 material developed using an innovative RadiciGroup technology that dramatically reduces the deterioration of mechanical properties in hot air at temperatures of up to 200°C. This product is ideal for use in high temperature, hot air applications, such as **intercooler trays**, **turbo manifolds** and **turbo resonators**. Radilon® A RV350 HHR Blk can be used as a metal or special polymer (*PPS, PPA, PA46*) replacement.

PA 6, PA 66 AND TPC-E BLOW MOULDING PRODUCTS...

Radilon® A BMV200K 333 blk

A PA66 product with mechanical and thermal properties that make it a truly high performance engineering plastic. Compared to standard blow moulding products, it shows higher thermal resistance while ensuring good processability. This product can be used as a metal replacement in hot side turbo air ducts for continuous operating temperatures of up to 200°C in contact with air. After 1,000 hours of heat ageing at 200°C, this Radilon® product guarantees: 75% of the initial tensile strength, 30% of the impact strength, unchanged elastic modulus and 35% of the deformation at break.

Radilon® S BMV150K 333



A 15% glass-fibre filled PA6 product certified for applications such as turbo air ducts for continuous operating temperatures of up to 160°C.

Radilon® S BMX150K 333

A PA6 engineering plastic specifically developed for blow moulding technology and particularly suitable for automotive applications.

Heraflex® E BMX552K



A TPC-E material with high thermal and mechanical performance and high flexibility (similar to rubber). This product can be used in the manufacture of clean air ducts at continuous operating temperatures of up to 140°C.

HIGH-PERFORMANCE GLYCOL-RESISTANT PA66 ENGINEERING PLASTICS FOR CAR COOLING SYSTEM COMPONENTS ...

A range of high-performance engineering plastics for the most critical car cooling system components (from radiator trays to thermostat housings and cooling hoses). These materials guarantee high thermal resistance in contact with engine cooling liquids, high creep resistance (even at high temperatures), vibration and fatigue resistance, and excellent chemical resistance to engine compartment fluids.

The PA66 range includes: **Radilon® A RV300 RKC**, standard hydrolysis-resistant, 30% glass-fibre filled PA 66; **Radilon® A GV HO 30P sw E4**, a PA66 product designed for highly critical applications and ranked “Top of the Class” for car cooling systems; and **Radilon® A RCV3015 RKC** and **Radilon® WIT 30/28** PA66 products suitable for GIT and WIT moulding of cooling system hoses, as metal alternatives.

PBT ENGINEERING PLASTICS...



A range of speciality products resistant to hydrolytic degradation. The line includes: **Raditer® B RV300 KB** and **Raditer® B RV TKB**. Unlike traditional PBT materials, which tend to lose their mechanical properties due to hydrolytic degradation when exposed to high temperatures and humidity, these new Raditer® products expand the potential uses of this type of materials to include more critical applications. The special formulas developed make these products laser-markable. (*Laser marking is an environmentally friendly alternative to traditional marking methods in that it does not use ink or solvents.*) Moreover, the exceptional fluidity of

these new PBT products makes them ideal for the manufacture of components with reduced thickness, such as new-generation miniature connectors.



ECO-COMPATIBLE ENGINEERING PLASTICS

A green engineering plastics range ideal for the automotive, electrical/electronics and consumer goods sectors. The new products are the fruit of RadiciGroup's concrete commitment to safeguarding the environment by improving its products and processes. In addition to the traditional Heramid® PA6 and PA66 post-industrial engineering plastics, RadiciGroup Plastics is introducing the following products at Brasilplast:

Radilon® S and Radilon® A

PA6 and PA66 glass-fibre filled engineering plastics containing a percentage of recycled recompounded polymer and designed for critical applications.

Radilon® A GF300 RKC

A glycol-resistant engineering plastic, containing a percentage of recompounded PA66, ideal for automotive applications, such as radiator trays.

Radilon® D RV300K 333 ner and Radilon® D 40P50 100 nat

PA610 engineering plastics for injection and extrusion moulding, produced in part using polymer from renewable

sources. Sixty percent of the raw materials used to manufacture the new Radilon® D plastics are renewable resource materials, such as castor seed oil, obtained from the castor oil plant (*Ricinus*



Communis). These Radilon® D products can be used in many critical applications, such as under-bonnet car parts, compressed air hoses and cable sheaths.

Reinforced polyamide engineering plastics with natural filler

A new family of reinforced polyamide engineering plastics with natural **rice-husk filler** specifically developed for the

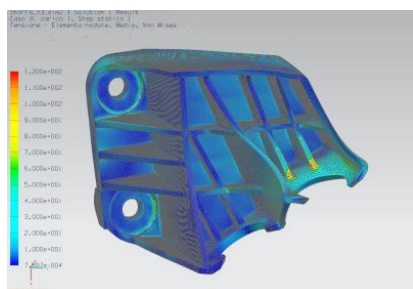


automotive sector. The characteristics of these new eco-compatible products make them ideal for all those applications where the final products must have good flexibility, dimensional stability and excellent aesthetic properties.



ENGINEERING PLASTICS IDEAL AS METAL AND LIGHT ALLOY REPLACEMENTS ...

Replacing metals with plastics is a key objective in many industrial sectors – from automotive to machinery and household appliances – because it achieves a sizeable reduction in weight, cost and, last but not least, CO2 emissions.



To meet these needs, RadiciGroup has recently launched a new family of high performance PA 66 products ideal for metal replacement. At Brasilplast RadiciGroup Plastics is exhibiting **Radilon® A RV500RW 339 blk**, a 50% glass fibre-reinforced PA 66 material, the result of RadiciGroup’s unique know-how and thirty years’ of experience in the plastics sector. **Radilon® A RV500RW 339 blk** can also be used as a metal and light alloy replacement in highly critical applications in all industrial sectors, such as components for industrial high pressure cleaners, engine mounts, gearbox housings and car seat frames.

For further information on RadiciGroup products exhibited at Brasilplast: info.plastics@radicigroup.com

RADICIGROUP PLASTICS_RadiciGroup, one of the most highly regarded manufacturers of **polyamide and polyester engineering plastics**, has production and sales units across the globe in Europe, Asia, North America and South America. With six plants strategically located in Italy, Germany, the United States, Brazil and China, RadiciGroup Plastics offers processing, quality control, research and development, and technological development support. An extensive network of sales units makes RadiciGroup a truly global organization capable of meeting the needs of its plastics customers worldwide on a timely basis. RadiciGroup offers a complete range of engineering plastics: PA6 and PA66 engineering polymers and copolymers (Radilon® - Radiflam® - Heramid® green products), PA610 (Radilon® D), PET and PBT (Raditer®), POM (Heraform®) and TPEs (Heraflex®). RadiciGroup Plastics products are used in the automotive, electrical/electronics, sports and industrial sectors www.radicigroup.com/plastics

RADICIGROUP_ With 2010 sales of EUR 1.162 billion, RadiciGroup is one of Italy’s leading chemicals multinationals, a diversified group specializing in chemicals, plastics and synthetic fibres. Among the Group’s key strengths is the synergistic vertical integration of its polyamide production chain. RadiciGroup products are exported all over the world and are widely used in applications such as apparel, sports, furnishings, automotive, electrical/electronics, household 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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