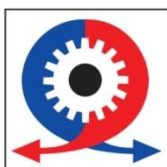




PRESS RELEASE

Brno, 10 - 14 September 2012

For immediate release



MSV 2012

COME AND SEE US:

Hall G1 - Stand 39

PA610 engineering plastics at MSV 2012: Radilon® D at centre stage, also in Brno.

- After the 2012 Plastindia, NPE, Chinaplas and Plast trade shows, RadiciGroup Plastics is participating in the MSV International Engineering Fair in Brno, Czech Republic (10-14 September 2012).
- During the event, the spotlight will be on the Radilon® D family of PA610 engineering plastics for the automotive industry, which have been developed thanks to the synergies between RadiciGroup Plastics and the Radici Chimica SpA research and development centre.
- Other automotive products showcased at the trade fair: Radilon® A HHR (HIGH HEAT RESISTANT), Radilon® A RV500 RW 339, Radilon® S URV, Radilon® A RV300 HRG 3900 NER and Radilon® A GF300 RKC NER.

At MSV 2012 in the Czech Republic, RadiciGroup Plastics will showcase its latest innovations for the automotive sector, with special emphasis on its Radilon® D polyamide 610 engineering plastics. Also exhibited at the fair will be: **Radilon® A HHR** (PA66 engineering plastics with exceptional heat resistance to ageing in air at temperatures of up to 210°C), **Radilon® A RV500 RW 339** and **Radilon® S URV** (PA6 and PA66 engineering plastics for use as metal and thermosetting material replacements) and lastly **Radilon® A RV300 HRG 3900 NER** and **Radilon® A GF300 RKC NER** (glycol-resistant PA66 engineering plastics.) The RadiciGroup product portfolio for the automotive sector stands out for its innovation, smaller environmental footprint, high performance and quality. The high-performance characteristics of these new engineering plastics make them ideal for the manufacture of parts to be installed under the bonnet, where high-

temperature stress (temperatures often exceeding 100°C) and the presence of aggressive liquids, such as gasoline and oil, create a particularly difficult engineering challenge. Additionally suitable for use as metal and thermosetting material replacements, the new products developed by RadiciGroup Plastics for the automotive sector guarantee high performance as well as reduced environmental impact.

RADILON® D ...

Ideal for injection moulding and extrusion, **Radilon® D** engineering plastics are produced using 60% organic polymer. The ingredients come from a renewable resource material, castor seed oil, obtained from the castor oil plant (*Ricinus Communis*). RadiciGroup PA610 products, which have been developed thanks to the synergies between RadiciGroup Plastics and the Radici Chimica SpA research and development centre, feature reduced environmental impact, as well as properties that are equal, if not superior, to those of traditional polyamides.



Compared to polyamides PA6 and PA66, Radilon® D shows:

- Reduced moisture uptake.
- Less loss of tensile strength and tensile modulus under wet conditions.
- Better chemical resistance in contact with zinc chloride and calcium chloride solutions.
- Better glycol resistance.

Compared to polyamides PA11 and PA12, Radilon® D shows:

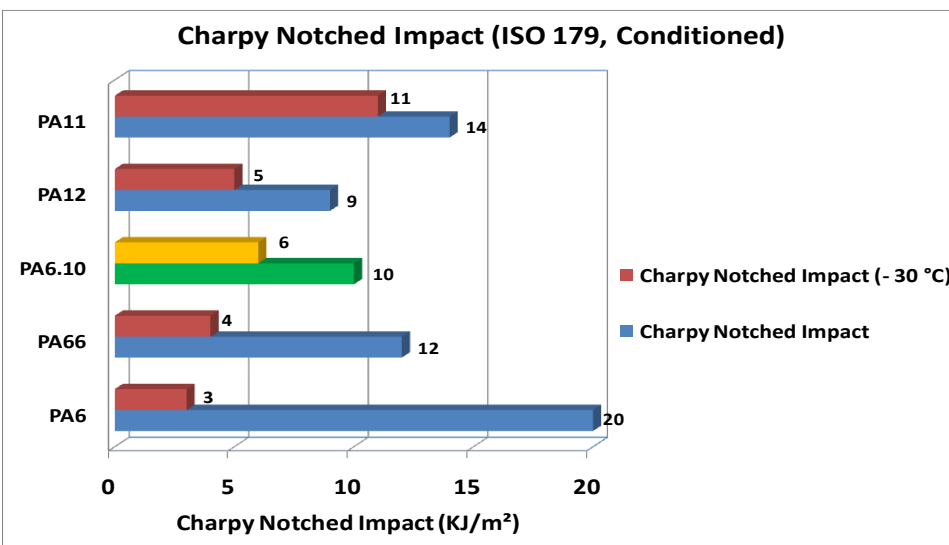
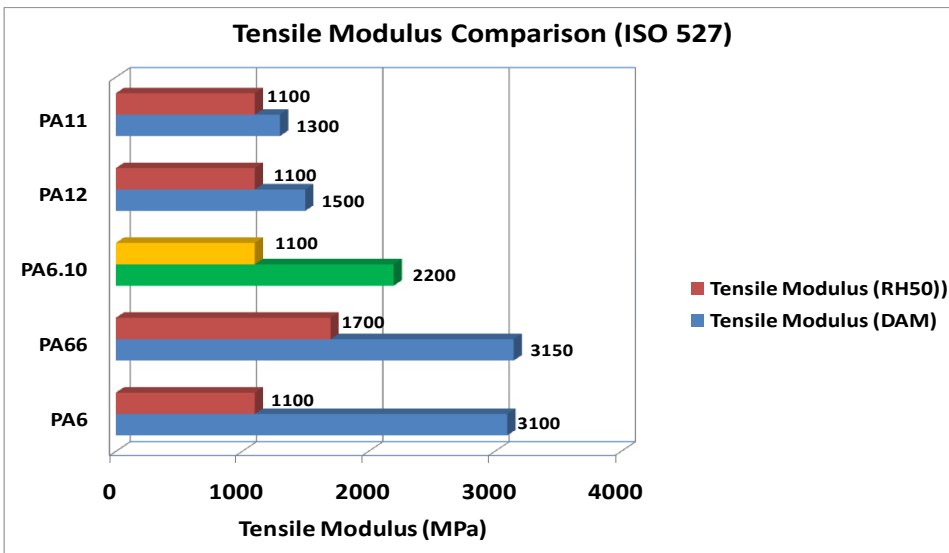
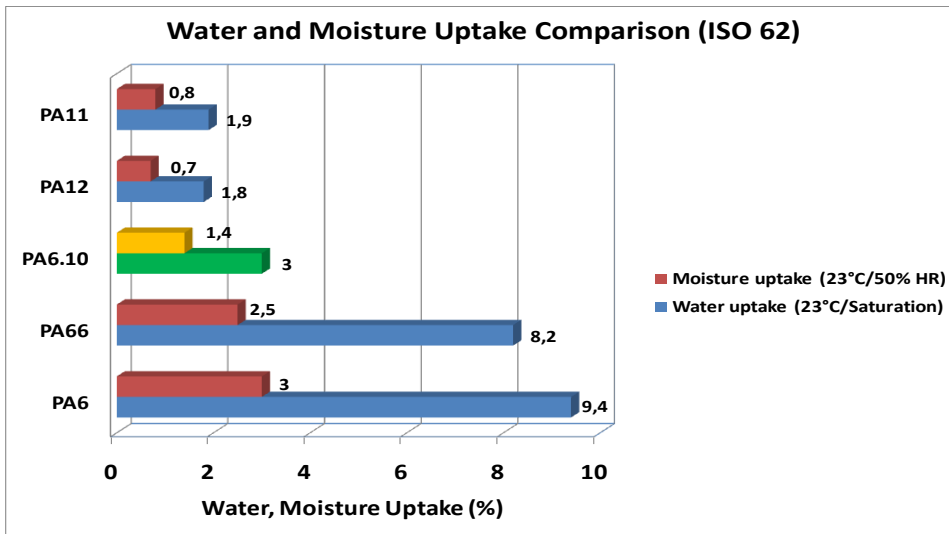
- Better heat resistance.
- Lower hydrocarbon permeability.

Main applications of Radilon® D in the automotive sector:

- Fuel line connectors, pneumatic conduits, brake lines, fuel lines, under-the-bonnet components.

See page 3 for comparison graphs.

COMPARISON GRAPHS



RADILON® A HHR (HIGH HEAT RESISTANT) ...

PA66 engineering plastics with exceptional heat resistance to ageing in air at temperatures of up to 210°C.

- **Main applications: intercooler trays, turbo ducts and manifolds, resonators.**

Among the products of the High Heat Resistant range, the spotlight will be on **RADILON® A BMV200 HHR 3800 NER** high-performance blow-moulding materials, 20% glass-fibre-filled PA66 engineering plastics with properties that make them ideal for applications such as turbo ducts (hot side), and **RADILON® A BMV150 HHR 3800 NER**, 15%-glass-fibre-filled PA66 plastics with excellent heat resistance. Among the moulding products showcased are **RADILON® A RV350 HHR 3800 NER** 35%-glass-fibre-filled PA66 engineering plastics specifically developed for the automotive industry for applications such as intercooler trays, turbo ducts and resonators.

RADILON® A RV500 RW 339

50%-glass-fibre-filled PA66 engineering plastics ideal as metal and thermosetting material replacements.

- **Main applications: engine mounts, gearbox housings.**

Compared to traditional PA66 engineering plastics, RADILON® A RV500 RW 339 materials ensure higher tensile strength and deformation at break, higher tensile strength and deformation at break in the presence of joint lines, and greater impact resistance under both wet and dry conditions.

RADILON® S URV

High-fluidity PA6 engineering plastics – 50%- and 60%-filled versions – ideal for structural components that were once made of metal.

- **Main applications: car seat frames.**

RADILON® A RV300 HRG 3900 NER

RADILON® A GF300 RKC NER

Glycol-resistant 30%-glass-fibre-filled PA66 engineering plastics.

- **Main applications: radiator tanks, thermostat housings, fittings.**

In producing the **RADILON® A RV300 HRG 3900 NER** line, both the polymer and compound have been optimized in order to maximize the glycol resistance properties. Some of the features of these materials are excellent mechanical properties (modulus and load), excellent impact strength, good processability and mouldability, and good wear and fatigue resistance even at high temperatures.

RADILON® A GF300 RKC NER materials are characterized by high content of recycled polyamides coming from a controlled source, superior mechanical properties and excellent reliability. These low environmental impact RadiciGroup products are ideal for critical automotive components.

During MSV 2012, RadiciGroup Plastics is also presenting the **RADIFLAM® S, RADIFLAM® A and RADIFLAM® B** PA6, PA66 and PBT flame-retardant lines for injection moulding and extrusion, and **HERAFLEX® E** thermoplastic elastomers (TPC-ET) for injection moulding.

For sales information on our products sold on the Czech market

Zdenka Votrubcova, RadiciGroup Plastics sales agent

e-mail: votrubcova@seznam.cz

Phone: +420 315 684495

Monica Rudelli, RadiciGroup Plastics Area Manager

e-mail: monica.rudelli@radicigroup.com

Phone: +39 0346 22453

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



RADICIGROUP IN THE PLASTICS INDUSTRY ...

RADICIGROUP PLASTICS 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, 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**

PRESS OFFICE

Cristina Bergamini - *Corporate Marketing&Communication*

E-mail: cristina.bergamini@radicigroup.com

Mobile: +39 347-8602397