
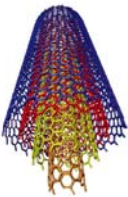




Arkema at PLAST MILAN 2009
Hall 16 - Stand C13
March 24 - 28 2009

Arkema unveils its latest innovations at Plast Milan

Arkema offers the plastics industry an extensive range of products for the construction, automotive, packaging and medical sectors. Plast Milan enables Arkema to showcase the latest innovations from its functional additive, functional polyolefin, PMMA, and vinyl compound ranges.

<i>Sectors/Applications</i>	New products	
<i>Window PVC Additives</i>	Durastrength® 360, the first grade in a new range of « composite » impact additives for PVC window profiles.	
<i>Carbon Nanotubes Thermoplastics/elastomer reinforcement</i>		Arkema presents its latest developments in its Graphistrength® carbon nanotube range for plastics and elastomers.
<i>Sealing resin for lidding Packaging</i>	Lotryl® Bestpeel, a new multipurpose sealing resin for easy-peel lidding.	
<i>PMMA Acrylic Glass Interior decoration, signage</i>		PMMA: launch of the Altuglas® “Think Thick” line, the brand gets thick.

<p>PMMA Acrylic Glass <i>Interior decoration, signage</i></p>	 <p>Altuglas® Rnew, an acrylic resin with 20% renewable carbon.</p>
<p>PMMA Acrylic Glass <i>Signage</i></p>	<p>PULLMAN Hotel signs use Altuglas® LED System.</p> 
<p>PMMA Acrylic Glass <i>Sanitaryware, cosmetics packaging</i></p>	 <p>New Altuglas® acrylic resin range with superior chemical resistance.</p>
<p>Compounds <i>Automotive, construction, medical, packaging</i></p>	   <p>Arkema markets new compounds for the automotive, construction, medical and packaging sectors:</p> <ul style="list-style-type: none"> - Compounds of renewable origin - PVC/wood: the durability of PVC and the beauty of wood - Phthalate-free formulations - Halogen-free compound for twist-off cap seals.

A global chemical company and France's leading chemicals producer, Arkema consists of three businesses: Vinyl Products, Industrial Chemicals, and Performance Products. Arkema reports sales of 5.6 billion euros. Arkema has 15,000 employees in over 40 countries and six research centers located in France, the United States and Japan. With internationally recognized brands, Arkema holds leadership positions in its principal markets.

<p>If you require further product information or photos, please contact : Sybille Chaix - Tel. : +33 1 49 00 70 30 - sybille.chaix@arkema.com</p>
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Application: Construction/PVC Window Profiles

**Durastrength® 360, the first grade in a new range of « composite »
impact additives for PVC window profiles**

Arkema presents its latest innovation in the field of acrylic impact modifiers for rigid PVC profiles, Durastrength® 360, the first grade in a new range of « composite » impact additives for PVC window profiles.

Durastrength® 360 helps reduce by up to 15% the amount of acrylic modifier in formulations, and therefore offers PVC profile manufacturers superior use value for this type of additive. As well as its high elastomer content, Durastrength® 360 features excellent properties which considerably reduce plate-out in extrusion equipment, and so help cut down the frequency of machine downtime for maintenance and cleaning and significantly improve profile production speed.

Available on the market for several months, Durastrength® 360 has been very well received by profile manufacturers, in particular in the emerging countries of Eastern Europe where it is part of the current growth in the construction market.

Arkema has been present for many years, through its Functional Additives Business Unit, in rigid PVC applications for the building and construction markets with a comprehensive range of Durastrength® acrylic impact modifiers and Plastistrength® processing aids.

With production capacities in Europe and the United States, Arkema holds a leading position in this growth market.

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Application: Thermoplastics and Elastomer Reinforcement

Arkema presents its latest developments in its Graphistrength® carbon nanotube range for plastics and elastomers

Arkema, a world leader in multiwall carbon nanotubes, presents its latest generation Graphistrength® masterbatches.

A new « universal » masterbatch for technical thermoplastics

The benefit of thermoplastic masterbatches is their excellent safety in use. However, they are generally adapted to a specific thermoplastic matrix, and so different polymers will require different masterbatches.

Arkema now markets a « universal » masterbatch, *Graphistrength® C M12-20*, containing 30 % carbon nanotubes by weight, which can be diluted into various thermoplastic matrices, including polyamide, polyester and polycarbonate. This new masterbatch represents key progress, and combines high carbon nanotube content with safety and versatility of use.

It can be diluted into technical thermoplastics to produce compounds with remarkable electrostatic dissipation (ESD) properties for low carbon nanotube concentrations. These compounds can be either extruded or injection-molded.

Soon a grade for fluorinated elastomers

Arkema is developing a new specific masterbatch, *Graphistrength® C E1-20*, in a fluorinated elastomer matrix. This product is easy to dilute in complete safety using conventional equipment. It helps produce materials that combine remarkable ESD and mechanical properties for low carbon nanotube concentrations.

Safe use of Graphistrength® powder carbon nanotube

The *Graphistrength® C100* powder features multiwall carbon nanotubes clumped into balls with a high average diameter of the order of several hundreds of micrometers. This characteristic considerably reduces any possibility of an aerosol forming when the *Graphistrength® C100* powder is being handled, and so greatly minimizes any related inhalation risk. Nevertheless, Arkema has put in place a global approach aimed at preventing all exposure risk. Arkema therefore supplies its *Graphistrength® C100* powder in metal containers designed to ensure optimum safety during transport and storage. Arkema has also developed its own system for safely delivering the *Graphistrength® C100* powder into the processing machinery.

This various equipment will be on display on the Arkema stand throughout the duration of the tradeshow.

More information on www.graphistrength.com

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Application: Packaging/Lidding Sealing Resin

**Lotryl[®] Bestpeel, a new multipurpose sealing resin
for easy-peel lidding**

Arkema, Europe's leader in functional polyolefins, is launching Lotryl[®] Bestpeel 2407 on the market. This new resin has been specifically formulated to combine three key properties: easy processing, interchangeability of sealing materials, and easy-to-open lidding.

The result of innovation from Arkema's R&D, this new grade has been developed for the manufacture of sealable - peelable lidding on a variety of substrates. Lotryl[®] Bestpeel 2407 is a ready-to-use product which is easy to process with conventional extrusion methods: coating, cast or blown film for lamination, and calendered sheet for thermoforming. Highly versatile, Lotryl[®] Bestpeel 2407 can be used to produce a large number of structures combining paper, aluminum, oriented PA, PET, PE and PP, and incorporates the sealing layer without the need for a solvent.

Its excellent sealing performance can be achieved on a variety of supports, e.g. PET, PP, PS and PVC pots and trays, over a wide temperature range. It ensures gentle and steady peeling and therefore easy opening, and leaves no residue on the edges of pots or trays.

Formulated from an ethylene - methyl acrylate copolymer using a high pressure autoclave process, Lotryl[®] Bestpeel 2407 is highly stable in extrusion, accommodates high coating temperatures, and offers excellent slip properties. It therefore represents genuine progress in the balance between application, processing and performance sought by converters who often face problems when using lidding sealing products.

***LOTRYL[®]** copolymer resins are ethylene copolymers with a high methyl or butyl acrylate content (18 to 35 %). With properties closer to those of elastomers than polyethylene, they are easy to use and compatible with a large number of polymers. **LOTRYL[®]** resins are used in many industrial applications, including hotmelt adhesives, polymer modification, cable sheathing, multilayer packaging film, and road bitumen.*

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Applications: Interior design, signs.

PMMA: launch of the Altuglas® “Think Thick” line, the brand gets thick

Altuglas®, the number one brand in PMMA, is launching its new “Think Thick” line of Altuglas® blocks on the European market this month. This line of thick acrylic panes (called blocks in the profession) is being produced in a new European workshop in Saint-Avoid, France, which opened its doors in early February. Altuglas® provides high-end PMMA blocks with a thickness of 30 mm to 110 mm and in hues ranging from transparent colourless – a reference in the field – to a line of “opals”, the latest trend on the market.

Thickness: from sheets to blocks.

With this line, Altuglas® is expanding its offering of standard 3 mm to 25 mm PMMA sheets by adding a range of 30 mm to 110 mm blocks, which have just come off the production line this month. The blocks are available in stock in industrial formats of 2000 mm x 1200 mm and 3000 mm x 2000 mm.

Inspiring creativity for our industrial customers.

“The imagination and creativity of our industrial customers are going to shape our block material – that’s why we’ve called it ‘Think Thick’! It’s a way of giving a nod to the profession so that they think of our product for their projects where the thickness of the acrylic pane is important in terms of aesthetic and technical value,” says Didier Leblanc, Director of European Sheet Business for Altuglas®. *“Our range is infinite, from interior architecture to industrial applications.”*

Altuglas® blocks are distributed on the European market through a network of professional distributors and directly to large industrial accounts.

A wide variety of applications:

Professional architecture: totems, tables, display cases.

Interior design: lighting fixtures, tables, chairs, stairways, nightclub floors.

Signs.

Industrial parts for the automobile and other industries which need transparency in order to view the passage of fluids.

Jewellery.

Altuglas International, a 100%-owned subsidiary of the Arkema Group, is the world leader in PMMA and manufactures 20% of the worldwide demand in the form of sheets, blocks and resins. Its PMMA registered trademarks include: Plexiglas® on the American continent & Altuglas® in the rest of the world. To learn more, please visit www.altuglasint.com.

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Applications : interior design, signs

Altuglas® Rnew, an acrylic containing 20% renewable carbon

Altuglas International, subsidiary of the Arkema Group, is introducing Altuglas® Rnew, a new PMMA grade containing 20% of carbon that is derived directly from biomass. This product offers properties comparable to those of conventional grades produced entirely from fossil carbon. It extends the existing family of Arkema thermoplastics under the "Arkema Renewables" label, which is intended to emphasise and exploit Arkema's approach to durable development and gives priority to the use of renewable raw materials in the manufacture of its products.

Altuglas® acrylic resins, part of an eco-development initiative

In the fields of cosmetics packaging, electronic products and household appliances, the transparent and opaque PMMA sheet that Altuglas International produces can be distinguished from other plastic materials by its excellent optical and visual qualities, durability and exceptional surface hardness. These intrinsic qualities make it possible to omit the application of a protective varnish coating during manufacturing, a highly energy-consuming stage that causes pollution, in particular from volatile organic compounds (VOCs).



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Application: Signs

**PULLMAN Hotel signs
use Altuglas® LED System**

The Altuglas® LED System sheet was used for the manufacture of signs for the « Pullman » hotel chain (Accor group) installed in recent months on the front of their 200 hotels around the world.

The Altuglas® LED System consists of a white diffusing cast acrylic sheet fitted on LEDs (light emitting diodes). This combination of Altuglas® sheet and LEDs makes the signs visible at night, while ensuring perfectly even luminosity. Tridonic supplied the LEDs for this project.

Signs made from sheet from the Altuglas® Led System range are environmentally sound and unquestionably cost-effective, as energy consumption is significantly lower (fewer LEDs using this combination with Altuglas® sheet than with competition product, for the same output).

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Applications: Sanitaryware, Cosmetics Packaging

**New Altuglas® acrylic resin range
with superior chemical resistance**

Altuglas International, a subsidiary of the Arkema Group, has developed a new Altuglas® resin range with superior resistance to chemicals.

Three grades are available, based on the final specifications required: Altuglas® CR 8, Altuglas® CR 12 and Altuglas® HCR 3.

Altuglas® CR 8 and Altuglas® CR 12 feature good chemical stability and good impact resistance, while Altuglas® HCR 3 offers excellent chemical stability, high thermal properties, and outstanding surface hardness

These new grades retain the basic properties for which Altuglas acrylic grades are well-known, namely transparency and durability.

Processed either by extrusion or by injection molding, these resins are recommended for applications such as sanitaryware (complying with EN 13559 standard), automobile hoods (superior resistance to cleaning agents), and cosmetics packaging (superior resistance to the “jus” of perfume).

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Sectors: Automotive, Construction, Medical, Packaging

Arkema markets new compounds for the automotive, construction, medical and packaging sectors

In line with its ongoing policy to focus on specialty compounds, Arkema's Vinyl Compounds business unit aptly illustrates innovation with a number of new products for its main markets.

Automotive – Compounds of renewable origin

Nakan[®] Rnew and Nakanprene[™] Rnew are two new vinyl compound ranges formulated with at least 20% carbon of renewable origin.

Their performance is adapted to the specification requirements of carmakers for both exterior applications (window glass encapsulation) and interior applications (Nakan[®] Drysol Rnew for dashboards, linings and trims).

Construction – PVC/wood: the durability of PVC combined with the beauty of wood

In keeping with its eco-design approach, Arkema markets PVC/wood (50/50) compounds for the manufacture of decking panels for patio and swimming pool areas, as well as siding panels.

The products made from these compounds can be colored, are recyclable, and offer the same benefits as synthetic products (durability, maintenance-free) while minimizing their impact on the environment.

Medical – Phthalate-free formulations

The development of phthalate-free formulations is gathering strength with the expansion of flexible ranges based on TOTM and DINCH technologies. These new product ranges offer an outstanding technical performance, and are particularly suited to applications such as transfusion tubes and bags. Additionally, Arkema is unveiling at Plast Milan a brand new compound which ensures excellent resistance to high intensity Gamma sterilization (50 kGray).

Packaging – Halogen-free compound for twist-off cap seals

Arkema is expanding its product range for metal cap seals with its latest HF (halogen-free) compound - Nakanprene[™] - designed for the seals of twist-off metal caps for carbonated beverage bottles.

Developed from a PVC-free base and marketed under the tradename Nakanprene[™] HF 710, this new compound fulfils the most stringent specification as it provides the caps with an excellent seal before or after pasteurization, with little force required to twist the caps off.

This latest product, for which an international patent has been filed, is suitable for every shape of seal on Sacmi and Zagomatic equipment.

It naturally fulfils the current regulations on food contact, in particular European standards 2002/72/EC and American standards FDA 21 CFR 177.1210.

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