K-2016 PRESS KIT

Hall 6 Booth C57

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A French *société anonyme* (limited company) with share capital of €754,701,730 – Registered in Nanterre: RCS 445 074 685
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About us

Arkema was publicly listed in 2006, a few months after being created. Ten years later, the company has been almost totally transformed. We are now an innovative, agile, global chemical producer with a regionally balanced portfolio, providing specialty chemicals and advanced materials.

Our first ten years confirm our belief that the most important thing is to progress together. From the outset, we have been engaged in serving shared growth.

Always on the move

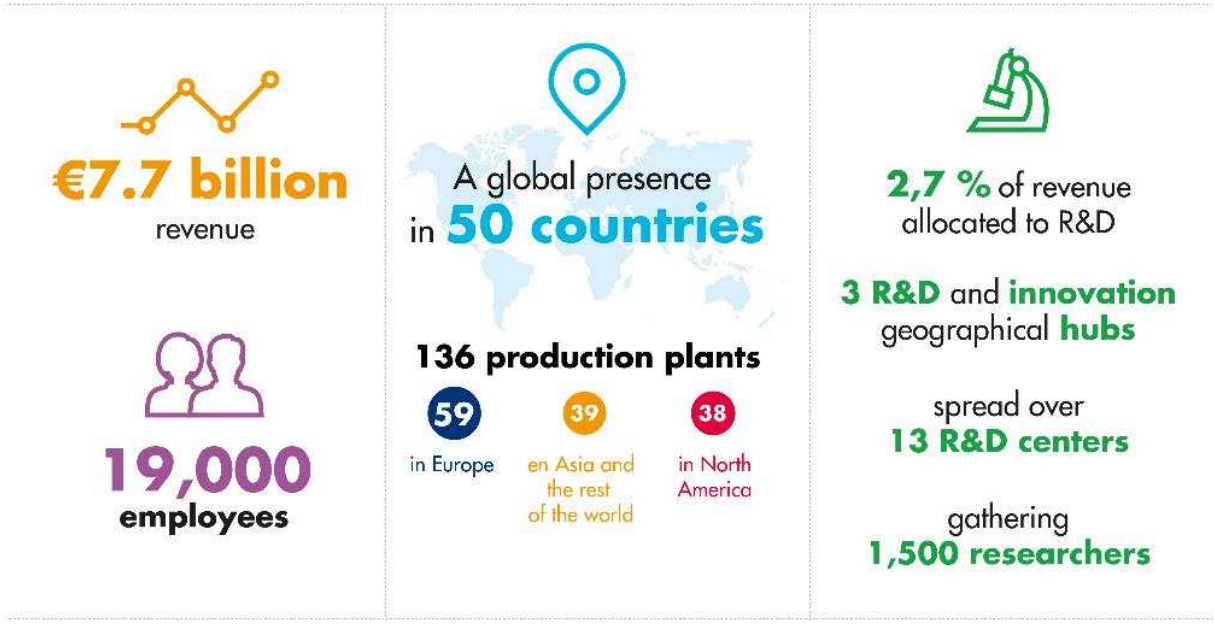
By tripling our operating income in a decade and doubling our EBITDA margin, we have proved our ability to ride out the ups and downs of the world economy and fluctuations in currencies and energy costs. Our market capitalization virtually tripled over the same period.

The success of Arkema and our people is no accident. It is the result of the company's profound transformation, guided by a bold strategy. From the outset, we have looked to emerging markets, in Asia in particular, whose share of our revenue has risen from around 10 to 24%.

Thanks to a selective divestment and acquisitions strategy, we have sharply reduced our dependence on cyclical activities and commodities, shifting our focus to higher-value-added specialty chemicals. Our recent acquisition of Bostik and its immediate contribution to our results are a yet another example of the change.

Arkema has made innovation a growth driver since day one. Named one of the Top 100 Global Innovators by Thomson Reuters for the last five years, we have six R&D platforms, focusing on performance materials that tackle the environmental challenges of the future.

Lastly, we are strongly engaged in a process to improve our corporate social responsibility performance. We had one of the lowest recordable injury rates in the industry in 2015. Environmentally, in 10 years we have slashed our greenhouse gas emissions 64% and our air emissions 43%. And we are shrinking our energy bill every year.



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Arkema showcases its latest innovations and its range of advanced materials at K2016

Arkema, which this year celebrates its 10th anniversary, has become a specialty chemicals and advanced materials group. The Group serves its customers by providing innovative solutions to meet some of the major challenges of today's world.

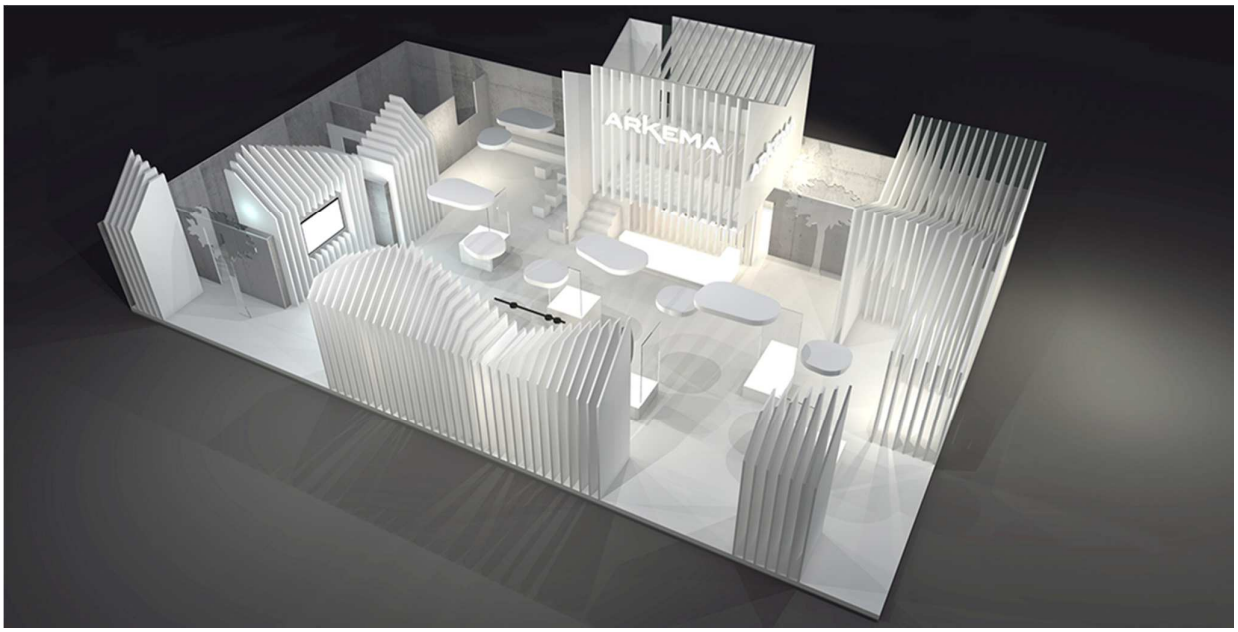
A true designer of materials and innovative solutions Arkema creates new uses that accelerate customer performance. Our balanced business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve.

Innovation is at the heart of Arkema's strategy and the Group today stands among the most innovative chemicals manufacturers in the world. Arkema has been ranked in the top 100 global Innovators for five consecutive years by Thomson Reuters.

The K2016 trade fair, held in Düsseldorf (Germany) from 19 to 26 October, will showcase the Group's latest innovations and its ranges of advanced materials around five major themes:

- Improving the performance of renewable energies
- Bringing access to clean water to all
- Lightening materials to reduce carbon footprint
- Enhancing everyday comfort and wellness
- Inventing materials for demanding Smart Industries

These various topics will be addressed on the Arkema booth (6C57) at the upcoming K2016.



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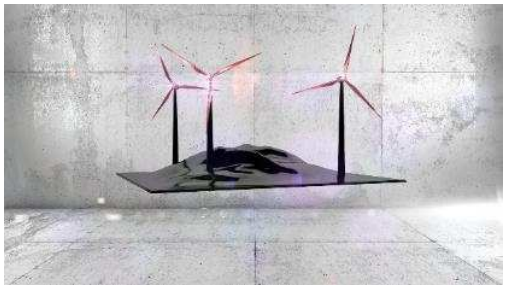
Improving the performance of renewable energies

Arkema is working to speed up the development of renewables in response to growing demand for energy and the need to protect the environment. We provide new materials that improve the performance and durability of solar panels and wind turbines, thereby strengthening the competitiveness of these market segments.

Wind turbines



K2016 will enable you to discover or rediscover Elium®, the only liquid thermoplastic resin to be processed like a thermoset resin for the manufacture of structural composite components. The resulting parts boast mechanical properties identical to those of thermoset composites, with the added benefit of being thermoformable and fully recyclable.

This revolutionary material is suitable in particular for the manufacture of recyclable wind turbine blades - a responsible alternative solution that aptly fits in with the circular economy.

Photovoltaic

Photovoltaic solar power is part of the energy transition process towards renewable and more environmentally friendly energy sources. The Kynar®, Evatane®, Luperox®, Apolhya® and Altuglas® solutions play an active role in the development of more efficient, longer lasting and easier to use photovoltaic panels.

Kynar® PVDF is a fluorinated polymer used in the manufacture of the photovoltaic panel's insulating backsheet. It features outstanding resistance to external constraints (high temperatures, abrasive dust, damp and UVs resistance) while maintaining its white colour over time, which helps reflect the light towards the photovoltaic panel's silicon and increase cell's yield

The *Evatane®* technology, based on EVA crosslinked with Luperox® organic peroxides, is used to encapsulate the cells and protect the electrical circuits. Its great UV resistance and excellent transparency (over 92%) make it a durable and cost effective choice material to protect photovoltaic cells.

Luperox® additives act as crosslinking agents (curing or hardening). They help increase output by 10 to 30% during the extrusion process, with no additional drying time required and no gel formation in the extruder.

Apolhya® Solar is a flexible nanostructured thermoplastic polymer designed to encapsulate the components of new generation photovoltaic modules, also called thin layers. *Apolhya®* features a durably transparency and a highly resistance to moisture. , Thanks to its broad melt temperature and melt viscosity range, this material helps improving manufacturing processes while maintaining compatibility with all traditional converting technologies.

Altuglas® acrylic glass (or PMMA – polymethyl methacrylate) is used as a substitute to the tempered glass sheet protecting the front of the photovoltaic panel. Its exceptional optical properties (crystalline transparency and outstanding UV resistance) make it particularly suited to the solar power market. They help focus light directly onto the fine silicon strands, thereby enhancing the system's yield and allowing manufacturers to reduce the amount of silicon required for the photovoltaic cells. Arkema's teams are working on developing photovoltaic solutions of the future including organic photovoltaic cells (organic photovoltaics) in which semi-conductor polymers will replace the silicon hitherto used.

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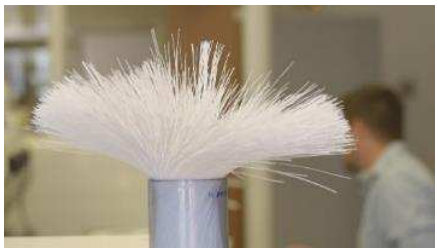
Bringing access to clean water to all

Access to clean water is one of the major challenges of the 21st century, opening up a world of opportunities in industrial, agricultural and domestic water treatment. Arkema is active at every stage of the clean water cycle, providing water treatment solutions such as pipe coatings and a particularly innovative polymer for the membrane filtration process.

Ultrafiltration membranes



Arkema began marketing this year a new Kynar® PVDF nanostructured grade that is particularly innovative in membrane filtration for the production of drinking water.

This high performance fluorinated polymer – winner of the 2016 Pierre Potier prize in France – is used to manufacture ultrafiltration membranes capable of filtering out ultrafine particles such as bacteria and viruses.

Furthermore, Kynar® PVDF membranes boast the specific feature of being hydrophilic, thereby allowing a 20% increase in the flow of filtered water compared to traditional membranes for the same energy output. Finally, these membranes feature lasting resistance to ageing and to corrosive chemicals, and so their lifetime can be extended from 5 to 10 years.

Transportation

Due to its dimensional stability, polyphenylene sulfide (PPS) modified with Arkema Lotader® reactive polyolefins is used in pumping equipment for water treatment plant and water transportation. Two new Lotader® grades, Lotader® AX8700 and Lotader® AX8750, have been recently introduced to the market to improve the performance of PPS, including its processability and impact resistance. Arkema is now offering the broadest range of epoxide modified polyolefins.

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Lightening materials to reduce carbon footprint

Arkema supports the transportation industry by helping it to lighten materials. That in turn reduces fuel consumption and carbon emissions, in line with the latest regulatory requirements. To help make transportation more environmentally responsible, we provide equipment manufacturers and carmakers with a comprehensive range of innovative, lightweight and high-performance materials to replace metal.

Elium®

The Elium® thermoplastic resin makes it possible to manufacture composite parts reinforced with glass fiber or carbon fiber, such as bumpers and hoods. These parts made from Elium® have the advantage of being 30 to 50% lighter than aluminium parts, and above all are recyclable. The Elium® resin therefore offers genuine assets for the manufacture of many components in the transportation market.

Rilsan® HT

Rilsan® HT, the only flexible polyamide capable of withstanding the highest temperatures recorded under the engine hood, is used to manufacture technical parts that are normally made of metal, with an obvious weight saving. Already a portfolio leader, in 2017 Arkema will introduce a new generation of high temperature bio based high performance polyamide resins for injection and extrusion automotive applications.

Rilperm®

We will present fuel systems based upon our patented Rilperm® construction designs for low washout and eco fuel lines as well as for big diameter corrugated pipes, which meets upcoming China 6 & Bharat Stage requirements.

Orevac® tie layer and Evasin EVOH

New environmental regulations, such as Euro VI, restrict more and more the emissions by automotive vehicles. Orevac® tie layer and Evasin EVOH barrier material bring solutions for the high barrier fuel tank meeting the highest emission regulations. Both resins are currently used by several car manufacturers in Europe and Asia Pacific regions.

NEW - *Impact modifiers*

Plastics materials used in car and trucks are necessary to decrease vehicle weight and fuel consumption. Arkema Lotader® and Orevac® resins are widely used to improve the performance of engineering plastics such as polyamides (PA), thermoplastic polyesters (PET and PBT), polypropylenes (PP), polycarbonates (PC) and alloys. Arkema has launched two new high performance PA impact modifiers, Orevac® IM300 for high fluidity polyamides and Orevac® IM800 for nylons requiring impact resistance at low temperatures. Lotader® AX8700, AX8750 and AX8930 new grades have been formulated to speed up the manufacturing productivity of PET, PBT, PPS and PC compounds while maintaining excellent impact resistance and mechanical properties. These new Lotader® AX combined with Lotryl® polyolefin copolymers are also widely used in the formulation of automotive sound deadening foams to prevent noise, vibration in car and reduce their weight.

Foams

Weight reduction, safety and comfort are the key words in the automotive industry. Lotader® AX reactive terpolymers, Lotryl® and Evatane® copolymers are widely used to improve performance foams. Formulations of combined functional polyolefins allow minimizing the amount of exterior noise entering inside the vehicle. Foams will fill and seal the cavities of the vehicle body structure to prevent water, air, dust and fumes from intruding in to the passenger and trunk compartments.

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Lotryl T

Functional polyolefins are widely used as impact modifier for engineering plastics in automotive and E&E industries. Nevertheless, appearance of this materials are more and more important in addition to their mechanical properties. Especially for polycarbonate compounds, Lotryl® T copolymers also improve the pigment dispersion together decreasing the gloss.

NEW - *Clearstrength® XT100*

ARKEMA introduces Clearstrength® XT100, an innovative core-shell impact modifier for thermoset applications. Clearstrength® XT100 is a Methacrylate-Butadiene-Styrene (MBS) core-shell impact modifier designed by ARKEMA to meet the most demanding technical requirements of thermoset applications such as structural adhesives (e.g. methacrylates, epoxy…) and high performance composites.

Thanks to its unique and patented technology, and contrary to conventional core-shell modifiers, Clearstrength® XT100 powder is easily dispersible in most liquid resin systems. Once dispersed, Clearstrength® XT100 provides an outstanding toughening effect in a wide range of service temperatures while exhibiting only a limited effect on resins viscosity.

Clearstrength® XT100 is particularly recommended to increase the toughness and/or adhesion of high performance thermoset formulations and can be advantageously used to replace conventional core-shell modifier powders but also liquid masterbatches containing pre-dispersed core-shell particles.

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Enhancing everyday comfort and wellness

Arkema's products are everywhere. Incorporating innovative, high-performance and environmentally responsible specialty chemicals, they meet consumer expectations by making everyday life more comfortable and convenient. From electronics to optical, healthcare applications and even sports equipment used by top athletes, the examples are endless.

Sports

The Pebax® block amide thermoplastic polyester is used to manufacture new generation football boots and running shoes.
With its unique properties of energy return, light weight, elasticity, flexibility and impact resistance, Pebax® was one of the stars of the Euro 2016 football tournament. Featured in the shoe soles of over 50% of the players in the competition, it is also used in particular in the latest PUMA shoe models and played a role in over half of all goals and decisive assists in the Euro competition!
The Pebax® Rnew® range of biobased elastomers will be on display in a variety of Sports shoes on the booth. Arkema recently announced increased production capacity in the USA and China.

NEW - We are also pleased to introduce our wide range of biobased Pebax® Rnew® products and our new transparent Pebax® Clear 1200 resin. This new grade enables Sports brands to make even lighter shoes due to its high flex modulus (1,200 MPa) and low density. As implied by its name, Pebax® Clear 1200 is also transparent and enables stylish coloration and back painting. This new grade will bring all these new benefits without compromising the low density and snap back properties that are already famous in the Pebax® line.

LED Lighting

Following the increasing demand for innovative LED lighting solutions, for general lighting and automotive market, Altuglas International proposes a complete portfolio of dedicated PMMA resins.

- Altuglas® Diffuse series: high light transmission combined with high hiding power
- Altuglas® Reflect: light output maximization durability and weatherability
- Altuglas® Crystal Clear: enhance the light

The ideal PMMA solution for your optics and thick lenses: Altuglas® HT 121 offers the highest Relative Thermal Index (RTI) of all PMMA on the market, a unique combination of heat, optics, hardness and UV ageing performance for LED lighting.

Altuglas® LED Lighting solutions are designed to offer unique sets of properties: to meet new technical requirements & to face challenging applications!

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Optics / Eyewear

We will exhibit our Rilsan® Clear range with our new Rilsan® Clear G820. This new grade enables higher productivity due to its excellent processability and over mold ability. This new grade is also 65% bio based and will allow Optical brands to be even more creative with their designs.

Healthcare

We will be showcasing our wide range of materials for the medical device industry, most notably our family of Pebax® MED thermoplastic elastomers with excellent properties that make this a material of reference for many minimally invasive surgical applications. We'll also highlight the rest of our Technical Polymers range for medical device applications, with many USP VI compliant, sterilizable, and high performance options to meet a variety of technical demands.

Food packaging films

With the integration of Bostik reclosable M-resins in its product offering, Arkema becomes the solution provider with the broadest range of extrudable resins for high performance packaging requiring high barrier and reclosability, including:

- Orevac® PE and PP and Lotader® tie layers;
- Evasin EVOH barrier resins;
- Evatane® and Lotryl® sealing resins;
- Lotryl® Bestpeel seal-peel resins;
- Bostik M-resins for reclosable packaging.

NEW - We will present our newest grades of Orevac® and Lotader® tie layers, including our brand new tubular based Lotader® 4613 as well as Evasin EVOH 44% for multi-bubble coextrusion.

PET straps

PET strapping is widely used to replace steel wrapping for the storage and transportation of goods. They keep materials stable while in transit, and withstand temperature differences and exposure to sunlight. Lotryl® T copolymer is a new modifier which improves the impact splitting properties of these PET straps. In addition, Lotryl® T copolymer provides an excellent holding force and improves the stretchability without limiting the friction welding process.

Packaging

Hot melt adhesives are widely used in the packaging with cardboard or plastic. Lotryl and Lotryl HMA provide with superior adhesion at room and freeze temperature, high mechanical performance and very efficient bonding.
Fast setting time, high green bond, low adhesive consumption as well as excellent viscosity stability and low temperature flexibility are tailor made properties of Lotryl / Lotryl HMA. To better serve the HMA market, Arkema develops new high fluidity Lotryl HMA.

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Inventing materials for demanding smart industries

Manufacturing industries face a host of challenges today, from bringing products to market faster and digitization to producing ever more complex components. Arkema provides innovative solutions to all of them. When it comes to shortening the time from design to production and making customized parts, we offer high performance polymers for 3D printing technologies and prototyping applications, alongside more conventional processes such as injection molding. And when it comes to more efficient equipment and extreme materials for the chemical process industry, our durable, ultra-pure, highly chemical-resistant PVDF can replace metal to manufacture reactors, pipes and valves.

3D Printing

We develop high-performance materials for 3D printing technologies most prevalent in the professional world. Thus, for laser sintering as an example, Arkema already offers two ranges of fine polyamide powders with outstanding mechanical properties. Orgasol® Invent Smooth guarantees, a fine touch of the object, excellent resolution in the detail of parts, and high recyclability of unused printing powders. Rilsan® Invent Natural, bio-based polyamide 100% renewable, produces functional parts with unparalleled strength and durability.

CPI (Chemical Processing Industry)

We will highlight the Kynar® 1000 HD, Kynar® 6000 HD, and Kynar® 9000 HD grades for use in high whiteness applications. We are also excited about the launch of our high modulus fluoropolymer series Kynar® UHM. This new line combines Kynar® PVDF with glass fibers resulting in a stiffer, stronger, and high heat-resistant fluoropolymer.

Cable

We will promote Kynar Flex® 3030, our latest product for the Kynar Flex® family that has been designed to have a high melting point, high flexibility, and high ductility even at sub-zero temperatures. These properties are all accomplished without the use of additives. The new Kynar Flex® 3030 is already serving wire & cable applications and has potential future applications in tubing.

Fluorinated Polymer Processing Aid (PPA)

We will be showcasing our wide range of Kynar Flex® PPA, our fluorinated Polymer Processing Aids which have the ability to improve in many ways the manufacturing of extruded films and extrusion blow molded products. This year the Kynar Flex® PPA family will bring two new grades to the market: Kynar® 705 enabling the suppression of die build up in extreme shear condition and Kynar Flex® 2200 specially designed for the processing of low viscosity resins.

Natural gas transportation

Natural gas is a clean substitute of crude oil and therefore more and more used in Western Europe. Orevac® tie layer has been used for several decades on major pipelines projects for the transportation of crude oil and natural gas in Europe, Russia and Middle East. Arkema is proud to announce that it has partnered with Sabic to propose a new system HDPE topcoat /adhesive for the external protection of natural gas pipelines.

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Appendices

Colombes – October, 12th, 2016

Technical Polymers business line unveils a new visual message

The Technical Polymers business line has just launched a new visual message to demonstrate its combined elements of a rich 50 year legacy in some of the world's most extreme applications and its dynamic future involving a broad portfolio of new developments: "An extreme world needs extreme materials".

The Technical Polymers business line started a new simplified communication program. The wide portfolio of technical solutions will be presented to the markets in three families of high performance offerings: the Kynar® family of fluoropolymers, the Pebax® family of thermoplastic elastomers, and the Rilsan® family of polyamide resins and alloys. Simultaneously, the business line is launching a new series of market-based communication packages, each specifically tailored to the challenges of our most demanding applications.

"*It is important for us to be able to simply and succinctly summarize the solutions that we bring to our customers' problems.*" states Dr. Erwoan Pezron, global group president for Technical Polymers. "*Simply put, we solve some of the world's most extreme material challenges. Our customers require us to be more than just materials suppliers; they need us to be creative problem solvers. The world is indeed becoming more extreme and the material challenges are becoming greater. And our message to the markets is simple:* ***An extreme world needs extreme materials***."

Technical Polymers team is present at the K-show and is available to demonstrate the new visual message, the new market-oriented communication packages and the recently unveiled materials database.

We are located in Hall 6 / C57, come to our booth for a live demonstration!

A designer of materials and innovative solutions, ***Arkema*** *shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €7.7 billion in 2015, we employ approximately 19,000 people worldwide and operate in close to 50 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation.* www.arkema.com

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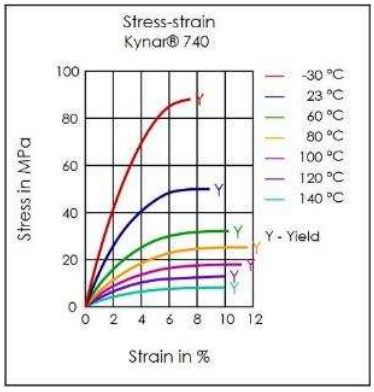
Colombes – October, 12th, 2016

Technical Polymers business line releases a new materials database accessible online

The Technical Polymers Business Line of Arkema has just launched its new material database. Accessible online on all five of their product websites, the new material database provides technical data on fluoropolymer and specialty polyamide resin grades from Arkema.

The database displays technical data, charts, and graphs on over 200 grades of Kynar®, Pebax®, Rilsan®, Orgalloy® and Rilsamid® resins. This new database allows the customer to compare properties of several grades at once as well as search the database by resin properties. A customized technical data sheet in a PDF format can also be downloaded for each grade on the database. The database provides the user with the ability to view or download the technical data in five languages (English, German, Chinese, Korean and Japanese) and to switch between US and metric units.

"*It is our goal to provide accurate, timely, market-focused information on our products in an attractive and easy to navigate form that will optimize the user experience*", states Kevin Hanrahan, Chief marketing officer Technical Polymers. "*The launch of the material database is a significant step towards that goal.*" The material database includes single point data, as well as graphical information (multi point data). For both categories, extensive tools for navigation and search are available, like generation of tables, comparison of grades, zoom and print functions (e.g. based on pdf formats).



The online database facilitates quick and easy comparison between the different grades. Materials can be selected according to grade name and a selection based on numerical values is also possible. The material data sheets generated in PDF format include single point values, curves and text information.

Our team is present at the K-show and is available to show you the new materials database or answer any of your questions about it. Come to our booth Hall 6 / C57, for a live demonstration!

Discover the new database on:

- http://www.kynar.com
- http://www.pebax.com
- http://www.rilsan.com
- http://www.orgalloy.com
- http://www.rilsamid.com

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Colombes – September 29, 2016

Orevac® IM, a new range of high impact performance modifier for polyamide compounds

Arkema's range of polymer modifiers including reactive terpolymers and grafted polymers are widely used to improve the impact strength as well as the fluidity of polyamide (PA) compounds. From general purpose toughness to intermediate and super toughness, Arkema impact modifiers allow reaching requested specifications for PA6 and PA6,6. Two new grades, Orevac® IM300 and IM800 grafted polymers, have been designed to complete Arkema's range of impact modifiers which enables processors to play on various properties depending on the loading: fluidity in processing, impact resistance and mechanical strength of PA compounds. In addition, these PA modifiers are produced in USA to be closer to the American market.

The Orevac® resins are a unique range of reactive polymers due the grafting of anhydride groups. These products combine an outstanding the processability and the required reactivity with polyamides. The Orevac® IM grafted polymers meet the need to flexibilize engineering plastics such as polyamides.

Orevac® IM300 and **IM800** new grades have been formulated to speed up the manufacturing productivity of these compounds while maintaining excellent impact resistance and mechanical properties.

Orevac® IM300 has been designed to combine an excellent fluidity with high impact resistance at room temperature. Thanks to its high fluidity, it opens up new opportunities in terms of processability of the compounds such as injection molding of small pieces with specific geometries or glass-reinforced PA.

Impact modifier	Impact resistance (kJ/m²)				Ductile/brittle transition (°C)	
	-40°C		23°C			
	PA6	PA6.6	PA6	PA6.6	PA6	PA6.6
IM300 (20%)	11	14	89	88	-15	-8
IM800 (25%)	18	26	87	103	-32	-34

Orevac® IM800 grafted polymer has been designed to achieve excellent impact resistance at low temperature such as -40°C with a very low ductile/brittle transition temperature. It is therefore recommended for specific automotive applications.

Orevac® IM300 and IM800 complete Arkema's range of reactive polymers with the Lotader® 4700 resin, already used for the modification of polyamides.

Products	Base	Melf Flow Index (g/10 min)	Melting point (°C)	Vicat (°C)
IM300	LLDPE	1.2	112	40
IM800	LLDPE	0.5	55	<40

Orevac® IM300 and IM800 grafted polymers are now available commercially globally through Arkema's local subsidiary and distribution network. They complete Arkema's impact modifiers portfolio:

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- Lotader® 4700: general impact modification of polyamides.
- Orevac® IM300: high fluidity impact modification of polyamides.
- Orevac® IM800: high impact modification of polyamides at low temperature.
- Lotader® AX8840: general impact modification of PPS.
- Lotader® AX8900: general impact modification of PET and PBT.
- Lotryl® 35BA40: high fluidity impact modifier for PBT.
- Lotader®/Lotryl®: impact modification of PA and PBT for injection molding.

Arkema's range of Orevac® grafted polymers, Lotader® reactive terpolymers and Lotryl® acrylate copolymers offers a wide scope of solutions for the modification of main engineering plastics, including polyamides (PA6, PA6,6 and PA12), thermoplastic polyesters (PET and PBT), bioplastics (PLA), polyphenylene sulfide (PPS) and polycarbonate (PC).

For more information on Orevac®, Lotader® and Lotryl® impact modification solutions:
http://wwww.orevac.com
http://www.lotader.com
http://www.lotryl.com

A designer of materials and innovative solutions, ***Arkema*** *shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €7.7 billion in 2015, we employ approximately 19,000 people worldwide and operate in close to 50 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation.* www.arkema.com

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