Arkema exhibits at Techtextil tradeshow with its brands Platamid®, Pebax® and Kynar®, its technical polymers, which specific emulsions are used in various textile applications.

- Arkema introduces a new type of Platamid® Hot Melt Adhesive: cross-linkable CoPolyamide HX 2632.

- Arkema showcase its Kynar® range, suited for various applications in textile: Kynar® ADX, Kynar Aquatec™, and Kynar® Multilayer Films
  1. A new range of bondable PVDF under the trade name Kynar® ADX series
  2. A new water-based fluoropolymer platform: Kynar Aquatec™
  3. Kynar® Multilayer Films: outstanding UV and chemical resistance

- Pebax® is present on textile sector with two specific and innovative applications: breathable waterproof Pebax® and non woven Pebax®
  1. Breathable waterproof membranes with Pebax®
  2. Pebax® for nonwoven applications

- Company profile: Arkema, a world chemical major

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Arkema introduces a new type of Platamid® Hot Melt Adhesive:
cross-linkable CoPolyamide HX 2632.

Platamid® HX 2632 is a patented functionalized thermoplastic Hot Melt Adhesive, which does not react during primary processing (compounding, web, film or filament extrusion etc.). As a consequence, controlled activation of cross-linking reactions can be achieved during a secondary processing step by various means such as peroxides, UV, e-beam.

Platamid® HX 2632 offers the following unique properties:

- **Improvement of processing:**
  The low viscosity HX 2632 Hot Melt Adhesive can be easily processed and then converted into a very high viscous product providing better quality for the end-user.

- **Optimization of adhesion quality:**
  Interfacial reaction between adhesive and substrate (e.g. rubber) improves adhesion strength and allows combining new types of substrates.

- **Increase of continues use temperature:**
  Creating additional chemical links inside the adhesive leads to additional strength in order to resist against temperature.

- **Increase of durability of Hot Melt Adhesive towards washing and solvents:**
  Cross-linking gives additional strength at top of the well-known properties of Platamid®.
Platamid® HX 2632 completes a wide range of CoPolyamides hot melt adhesives produced by Arkema. Since more than 40 years Platamid® proves how to support customers by optimization of CoPolyamides Hot Melt Adhesives for new challenges in high demanding markets.

More information on Platamid®

**Platamid®** Hot Melt Adhesives are an excellent answer for high demanding bonding challenges in markets such as textile interlining, technical textiles, construction, electronics and automotive. Platamid®’s can be easily converted into nets, webs, films or filaments leading to superior results in quality and cost.

A wide range of CoPolyamide hot melt adhesives is produced since more than 40 years. This experience is used to support our customers in order to optimize Copolyamide hot melt adhesives for new challenges in high demanding markets.

Contact: Heike Faulhammer, Tel: +33 (0)1 49 00 84 14, heike.faulhammer@arkema.com
The Kynar® range suited for various applications in textile: Kynar® ADX

Kynar Aquatec™, and Kynar® Multilayer Films

A new range of bondable PVDF under the trade name Kynar® ADX series

After developing a revolutionary patented technology, ARKEMA now offers commercially a new range of reactive polyvinylidene fluoride (PVDF) polymers and copolymers under the trade name Kynar® ADX series. This new modified PVDF product range opens numerous application possibilities by allowing Kynar® ADX PVDF to adhere to many materials, including metals, textiles and different polymers or rubbers, while still maintaining the outstanding properties of Kynar resins. With such strong points as chemical resistance, barrier properties, UV resistance, mechanical properties, thermal stability, coupled with the possibility of direct adhesion to many organic and inorganic substrates, Kynar® ADX PVDF is an ideal choice for primerless coatings. Furthermore, it can be easily applied using standard technologies like solvent processes (transfer coating, enduction).

www.kynar.com

Contact : François Beaume, Tel : +33 (0)2 32 46 67 30, francois.beaume@arkema.com
A new water-based fluoropolymer platform: Kynar Aquatec™

Kynar Aquatec™ is an innovative technology based on acrylic-modified Kynar® PVDF resin in a convenient emulsion form. Liquid coatings formulated with Kynar Aquatec™ deliver the durability and performance of traditional Kynar® PVDF based coatings, but dry at ambient temperature. These coatings can be easily applied to a variety of substrates, including metals, PVC, textiles, and elastomers.

“The processing ease and remarkable properties of Kynar Aquatec™ emulsions are opening up new applications for protective surface coatings.” says Kevin Hanrahan, Business Development Manager.

Kynar Aquatec™ emulsions are incorporated into high-performance paints and coatings using formulating guidelines similar to those employed for acrylic emulsions. These coatings provide extreme weatherability in a VOC-compliant, field- or factory-applied, ambient air-dry system. Additional benefits include tremendous resistance to dirt pickup, outstanding water repellency, excellent adhesion, and easy application.

www.kynaraquatec.com

Contact: François Beaume, Tel : +33 (0)2 32 46 67 30, francois.beaume@arkema.com
Kynar® Multilayer Films: outstanding UV and chemical resistance

The Kynar® multilayer fluoropolymer films based on polyvinylidene fluoride (PVDF) have outstanding UV and chemical resistance while maintaining good barrier properties. Produced by a multiplayer technology, the Kynar® films have an adhesive layer that allows thermal bonding to a variety of substrates and metals. Developed with technology derived from Kynar® coating, the Kynar® films have outstanding weatherability, chemical resistance and thermal stability. All these properties make them an exceptional choice as a protective layer for architectural, furniture and aeronautic applications. With performance and handling characteristics similar to polyvinyl fluoride (PVDF) films, the Kynar® films can be considered for any applications requiring fluoropolymers films including solar panels, PVC profile protection and exterior laminated panels.

Kynar® films in clear, white and grey colors and basic thicknesses are in stock with width up to 167 cm. They can also be produced in custom colors and thicknesses. The films are available from ARKEMA, in small minimum quantities, and ship from US and European warehouses.

www.kynar.com

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Pebax® is present on textile sector with two specific and innovative applications: breathable waterproof Pebax®, and non woven Pebax®

Breathable waterproof membranes with breathable Pebax®

The hydrophilic grades of Pebax® when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof and offering an excellent barrier layer to bacteria. Pebax® can be laminated onto synthetic nonwovens, wovens or any textiles with the help of some functional polyolefins, and does not require any adhesives or bonding agents to adhere with these substrates.

Recently, Arkema has just announced the development of a new Pebax® film extrusion grade engineered for applications requiring high Moisture Vapor Transmission Rate (MVTR) and N,N-diethyl-3-methylbenzamide (DEET) resistance. Designers and film converters looking for breathable films will find
this new Pebax® polyether block amide polymer has excellent wash and chemical resistance and remains intact after exposure to DEET – an aggressive insect repellent.

Breathable materials that withstand DEET exposure are in demand, given many thermoplastics quickly lose strength and mechanical integrity on exposure to DEET. Therefore, this new Pebax® film extrusion grader respond to needs of many outdoor workers (militaries, farmers, hunters) who use or are in contact with DEET-based insect repellents,

Convertors and designers needing highly breathable films with good wash and chemical resistance have now a new material for testing.

### Pebax® for nonwoven applications

Arkema has developed new Pebax® technology that promises to open revolutionary opportunities for design and production of durable elastomeric nonwovens for higher performance, lighter weight, ease of assembly and lower cost. Currently this plastic is manufactured at Arkema locations in France and North America. At the Techtextile 2007, Arkema exhibits Pebax® nonwovens samples made via the meltblown process of 50, 100 and 200 grams per square meter. These high-elongation & high-recovery webs were produced on commercial equipment at industrial rates of 0.8 gram per hole per min. As a meltblown web, Pebax® can be used to make wide width roll goods which are then cut into narrow widths. These nonwovens are suitable replacements for many narrow elastics and spandex-containing woven or knit textiles. As a potential waistband for example the 200 gsm Pebax webs have total recovery when stretched 100% repeatedly. They also have excellent hot wash and dry clean resistance.
Melt spinning of nonwovens is a rapidly growing process and is a simple and cheap approach to convert polymer directly into roll goods.

More information on breathable Pebax®

Pebax® is a polyether block amide with the highest performance of all thermoplastic elastomers. Through its unique copolymer structure, it offers a perfect combination of mechanical strength, breathability, and ease of processing. Unlike microporous products, the monolithic structure of Pebax® films are a barrier to water and bacteria while exhibiting a high level of MVTR (Moisture Vapor Transmission Rate). Each of these advantages make breathable Pebax® a material of choice in many applications such as construction wrapping, food packaging, medical, and sport clothing. The breathable grades of Pebax® can be extruded into a very thin monolithic film down to 15 microns or laminated on to a wide variety of substrates (wovens, non wovens, textiles...) offering excellent adhesion for structural integrity. Pebax® can also be used with compatibilizing resins (functional polyolefins) to adjust its breathability to different levels suitable for a wide range of applications and conditions in different parts of the world. Pebax® brings design flexibility to laminators and builders to develop a whole range of products.
Arkema, A World Chemical Major

A global chemical player, Arkema consists of 3 coherent and related business segments:

- Vinyl Products: Chlorine, Caustic Soda, PVC, Vinyl Compounds, Pipes and Profiles (Alphacan),
- Industrial Chemicals: Acrylics, PMMA and Methacrylics (Altuglas International), Thiochemicals, Fluorochemicals, Hydrogen Peroxide,
- Performance Products: Technical Polymers, Specialty Chemicals (Ceca), Functional Additives.

Present in over 40 countries with 17,000 employees, Arkema achieved sales of 5.7 billion euros in 2006. With its 6 research centers in France, the United States and Japan, and internationally recognized brands, Arkema holds leadership positions in its principal markets.

Arkema chemicals at the heart of everyday life

Arkema’s products are the basis of countless applications in every sector of daily life that help make progress accessible to as many people as possible.
Arkema is committed to establishing genuine partnerships with its customers, by:
- Optimizing commercial relations, through greater mutual understanding,
- Delivering innovation, through greater synergies with its customers,
- Enhancing our presence in the market, through technical expertise.

Arkema and sustainable development

Arkema is committed to establishing lasting activities that are competitive and safe for man and the environment, by offering innovative products and services that enhance the quality of life for present and future generations.

Controlling the impact of our activities

Arkema has put in place environmental management systems at its production facilities that are based on the ongoing improvement of performance.

Promoting a safety culture

Arkema’s policy and commitments place industrial safety at the heart of its objectives, with the desire to establish the same lasting safety culture throughout its activities.

Priority to dialog

Because progress cannot be built on misunderstandings, Arkema encourages local dialog with all its natural partners: dialog between personnel and management to anticipate the inevitable evolution of structures and organizations, and community-based dialog to heed the legitimate expectations of stakeholders, in particular people living in the vicinity of its production facilities.
Product stewardship

Arkema’s involvement embraces the entire product lifecycle, from design, raw material procurement, and production, through to packaging, transportation, safe use, and end of life. Product stewardship implies even greater knowledge and improvement of products in order to minimize risks to man and the environment.