

## Arkema, a major player in the global chemicals industry and France's leading chemicals producer

With operations in more than 40 countries, and top-tier positions in most of its manufacturing activities, Arkema is continuing to pursue growth by expanding its production base in Europe, the United States and Asia.

- An international reach
- 15,200 employees (2007)
- Sales in 2007: 5.7 bn€
- 80 production plants: 20 in North and South America, 50 in Europe and 10 in Asia
- 6 R&D centers – 4 in France, 1 in the United States and 1 in Japan

### 3 business segments, 13 business units

#### Vinyl Products

**Integrated activities, ranging from brine electrolysis  
to PVC processing**

Chlorine/Caustic Soda, PVC, Vinyl Compounds,  
Pipes and Profiles (Alphacan)

#### Industrial Chemicals

**Product lines that are produced globally and well-  
integrated with Arkema's other activities**

Acrylics, Specialty Acrylic Polymers (Coatex), PMMA (Altuglas International),  
Thiochemicals, Fluorochemicals, Hydrogen Peroxide

#### Performance Products

**Innovative performance materials that push the technical  
envelope as we design the applications of the future**

Technical Polymers, Specialty Chemicals (CECA), Functional Additives

**ARKEMA**  
The world is our inspiration



## Altuglas International develops acrylic resins based on renewable raw materials

### 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).

*Altuglas International, an Arkema subsidiary, markets 20% of PMMA (polymethyl methacrylate) world production in the form of acrylic sheet and resin. In this sector, the company operates eight production sites around the world. Its trademarks are Plexiglas® in the Americas and Altuglas® in the rest of the world.*

[www.altuglasint.com](http://www.altuglasint.com)

*A global chemical company and France's leading chemicals producer, Arkema consists of three strategically related businesses: Vinyl Products, Industrial Chemicals, and Performance Products. Arkema reported sales of 5.7 billion euros in 2007. Arkema has 15,200 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.*

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# Let the ideas roll



**Altuglas® BS:**  
ACRYLIC BEADS FOR  
COATING, POLYESTER, PVC.

Altuglas® BS  
Let them coat, let them matt,  
let them add value,  
let them mix, let them bind,  
let your ideas roll into the future.

*More than just clear. New*

ALTUGLAS  
S.p.A. - Via S. Felice 10 - 20139 Milano (MI) - Italy  
Tel. +39 02 57501 - Fax +39 02 57502  
www.altuglas.com

[www.altuglasint.com](http://www.altuglasint.com)



# Res\*up

Raise your innovation



ALTUGLAS®  
HT 121



ALTUGLAS®  
HT 121 Black



ALTUGLAS®  
DRT Frosted



ALTUGLAS®  
V 920T Green



ALTUGLAS®  
V 825T Black



ALTUGLAS®  
HFI 10 Matt



ALTUGLAS®  
Super Matt



ALTUGLAS®  
V 920T Frosted



ALTUGLAS®  
Super Frosted



ALTUGLAS®  
MI 8E



ALTUGLAS®  
V 920T Red



ALTUGLAS®  
DRT Matt



ALTUGLAS®  
BS 100



ALTUGLAS®  
BS 130



ALTUGLAS®  
BS 440



ALTUGLAS®  
BS 203

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NEW RESINS FOR:  
CAR BODY PANELS  
CARAVAN PANELS  
AUTOMOTIVE TRIMS  
FURNITURE  
COSMETICS CONTAINERS

DOOR PANELS  
WINDOW PROFILES  
ROOF TILES

NEW BEADS FOR:  
COATING, POLYESTER, PVC

Go far beyond transparency, be more innovative!  
Altuglas® acrylic resins and beads open up for you  
a whole new world of colours and surface finishes.  
Among dozens of grades is the one for you, for lightness of  
creative touch in an ever-widening range of applications.

*More than just clear. New*

ALTUGLAS  
FURNITURE

ALTUGLAS®  
www.altuglas.com

www.altuglas.com

## **Biostrength™: a new range of Modifiers for Bioplastics**

Arkema announces the launch of the Biostrength™ additives range for PLA (polylactic acid) comprising a processing aid - Biostrength™700 - and two impact modifiers - Biostrength™130 and Biostrength™150. Biostrength™700 provides high melt strength performance, clarity and recyclability for PLA. Biostrength™130 and Biostrength™150 impact modifiers are designed to improve the sturdiness of PLA.

Biostrength™700 is a melt strength improver for polylactic acid (PLA). Biostrength™700 substantially increases the melt strength and melt elasticity of PLA, while maintaining high optical clarity. Biostrength™700 improves the processing of PLA for extrusion, calendering, blow molding, thermoforming and foam applications, and is completely transparent in PLA at typical usage levels.

Additionally, adding Biostrength™700 melt strength improver to PLA enables converters to use higher levels of recycled PLA with improved retention of the physical properties.

Arkema has specifically developed Biostrength™130 and Biostrength™150 core-shell impact modifiers to increase the sturdiness of PLA. Biostrength™130 is designed for use in translucent applications, while Biostrength™150 is a higher efficiency modifier for use in opaque applications. Biostrength™130 and 150 retain their high impact properties at -20°C.

Arkema's Biostrength™ product line is designed to increase productivity and improve product performance for the expanding biopolymer marketplace.

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# PLASTIC ADDITIVES

Your worldwide partner for your formulations and processing needs

New technologies that change everything

**DURASTRENGTH® 440**  
Acrylic impact modifier

**CLEARSTRENGTH® C, E Series**  
Butadiene based impact modifiers

Greater freedom of design  
and efficiency for engineering resins

**DURASTRENGTH® 340**  
High efficiency acrylic impact modifier

**DURASTRENGTH® 360**  
High performance composite acrylic impact modifier

**PLASTISTRENGTH® 770**  
Lubricating processing aid

PVC property improvements  
without compromise

Functional Additives



**ARKEMA**  
The world is our inspiration

## Arkema presents Evatane<sup>®</sup> 33 - 45 PV, an HC EVA copolymer dedicated to photovoltaic applications

Arkema, the European leader in HC EVA (High Content Ethylene – Vinyl Acetate copolymers), now markets Evatane<sup>®</sup> 33-45PV, an HC EVA specifically developed for photovoltaic solar panels.

The direct result of Arkema's R&D innovation, this new grade is designed for the encapsulation of the materials (crystalline silicon or thin films) that make up the photovoltaic cells. Evatane<sup>®</sup> 33-45PV is characterized by outstanding optical performances, in particular good light transmission which makes for a superior yield from the solar panel. Thanks to its specially developed formulation, it offers excellent crosslinking ability and processability.

Deeply committed to the design of innovative materials for the development of new sources of energy, Arkema plans to launch another new Evatane<sup>®</sup> grade specially designed for photovoltaic applications by the end of 2008.



**EVATANE<sup>®</sup>** 

Evatane<sup>®</sup> copolymer resins are ethylene copolymers with a high vinyl acetate content (from 18 to 42 %). With properties closer to those of elastomers than polyethylene, these resins are easy to process and compatible with a large number of polymers. Evatane<sup>®</sup> resins are used in many industrial applications, including hotmelt adhesives, photovoltaic cells, cable sheathing, multilayer packaging film, and road bitumen.

*France's leading chemicals producer and a global chemical player, Arkema consists of 3 coherent and related business segments: Vinyl Products, Industrial Chemicals, and Performance Products. Present in over 40 countries with 15,200 employees, Arkema achieves sales of 5.7 billion euros. With its 6 research centers in France, the United States and Japan, and internationally recognized brands, Arkema holds leadership positions in its principal markets.*

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# FUNCTIONAL POLYOLEFINS

Let's progress together

**EVATANE®**

Ethylene - Vinyl Acetate Copolymers

**LOTRYL®**

Ethylene - Acrylate Copolymers

**LOTADER®**

Reactive Terpolymers

**OREVAC®**

Modified Polyolefins

Polymer Modification

Compatilizer

Impact Modifier

Coupling Agent

Cable & Wire

Semi-Conductive Cable Compounds

HFFR

Heat-Shrinkable Tube

  
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## **Platamid® HX 2656 Rnew: the first 100% biobased Hotmelt Adhesive**

**Arkema, one of the world leaders in copolyamide Hotmelt Adhesives, introduces Platamid® HX 2656 Rnew, a unique new product fulfilling two major challenges of the adhesive market: lower emissions and sustainable chemistry.**

The automotive industry has been working for years to reduce emissions of volatile organic compounds in the passenger compartment, i.e. the evaporation of gases from the materials used for the construction of car interiors (VOCs and fogging). Other markets in Technical Textiles are following this trend.

In line with the Kyoto Protocol, the challenge for the chemical industry as a whole is to provide sustainable chemistry. This is driven primarily by the objective to limit CO<sub>2</sub> emissions into the atmosphere. Using renewable resources is one of the key factors in attaining this goal. The raw materials of Platamid® HX 2656 Rnew are derived from vegetable oil feedstock, and thus 100% renewable organic carbon as per ASTM D6866 (Standard Test Methods for determining the Biobased Content of Natural Range Materials Using Radiocarbon and Isotope Ratio Mass Spectrometry Analysis).

Platamid® HX 2656 Rnew is a high performance thermoplastic hotmelt adhesive developed for highly demanding and durable applications. Industrial scale production has been demonstrated successfully. Platamid® HX 2656 can be processed into webbing, netting, film and filament using standard equipment and conditions. Application developments are underway in cooperation with our customers.

Platamid® Hotmelt Adhesives are an excellent solution to highly demanding bonding challenges in a large number of markets, including textile interlining, technical textiles, construction, electronics and automotive.

Platamid® has been used for over 40 years in applications where durability and strength matter.

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## Resinoplast's Nakan® Drysol Rnew® PVC for car dashboards saves fossil resources

Resinoplast, Arkema's Vinyl Compounds subsidiary, is an essential player in automotive interior applications. A driving force of innovation at the service of carmakers and automotive equipment manufacturers, Resinoplast has developed PVC compounds containing over 25% carbon of renewable origin, which therefore helps save fossil resources.

Resinoplast's Nakan® Drysol plasticized PVC powders are processed using the slush molding (rotomolding) method into car interior skins for various trims and components, e.g. dashboard, central console, door panels, etc.

Firmly committed to a sustainable development approach, and mindful of offering its customers products that help save fossil resources, Resinoplast's R&D has developed materials containing a significant amount of carbon of renewable origin, together with related manufacturing processes.

These new materials marketed under the tradename Nakan® Drysol Rnew® offer excellent temperature stability to help withstand the temperatures induced by the « slush molding » process (up to 260°C), and fulfill the specification requirements of the most demanding carmakers, in particular in terms of durability, safety, and emissions levels.



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Arkema (France) S.A. - Capital de 300 000 000 €

ARKEMA est une marque déposée

# NAKAN® & SUNPRENE®

Vinyl thermoplastics

Vinyl products

## Construction industry

Blinds and roller shutters  
Indoor and outdoor cladding  
Doors and window profiles  
Outdoor pipes and fittings  
Window seals  
Guttering  
Fencing  
Industrial floor tiles  
Roofing

## Automotive industry

Cables  
Windscreen profiles  
Roof trims  
Rear quarter light encapsulation  
Brake and gear lever injection moulded handles  
Fuel line sheathing and fuel-resistant hoses  
Lorry tarpaulin  
Slush moulding powders for dashboards, consoles, door panels

## Food & packaging industries

Shrinkwrap film  
Bottle cap seal  
Pipes and hoses

## Medical products

Equipment in contact with human tissue  
Containers for fluids  
Transfer tubes and hoses  
Rigid connectors  
Drip chambers

## Music industry

Vinyl records

## Miscellaneous

Electric cables and cable ducts  
Electrical boxes and housings  
Connectors and plugs  
Industrial hoses  
Vacuum hoses  
Garden hoses  
Rotomoulding powders

**NAKAN**

 **ARKEMA**  
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## Two-color car dashboard skins made from Nakan® Drysol PVC: unrivalled aesthetic appearance and touch

Resinoplast, Arkema's Vinyl Compounds subsidiary, is an essential European player in automotive interior applications. A driving force of innovation at the service of carmakers and automotive equipment manufacturers, Resinoplast has participated in the development of the « In Mold » technology used to manufacture two-color dashboard skins with unrivalled look and touch, similar to leather.

Resinoplast's Nakan® Drysol plasticized PVC powders are processed using the slush molding (rotomolding) method into car interior skins for various trims and components, e.g. dashboard, central console, door panels, etc.

In recent years, leading carmakers have focused on renewed originality for their cars' interior design. However, despite the diversity of materials and converting processes available, differentiation of car interiors could only be achieved either by assembling several components, or by using simple shapes. Resinoplast's R&D therefore endeavored to develop new technologies to offer equipment manufacturers greater freedom of design and a choice of colors using a single mono-material component.

Based on expertise in the « slush molding » process, the « In Mold » technology was developed. This produces a two-color skin with outstanding grain definition, while still using the conventional « slush molding » process. The innovation consists in a preliminary stage during which a coating layer is sprayed directly onto the mold cavity.

The coating / slush PVC combination imparts the technical and aesthetic characteristics to the dashboard. This on-line decoration of the PVC skin requires accurate fine-tuning of the compositions of both the coating and the support.

The work achieved by Resinoplast's R&D to develop this « In Mold » PVC focused on the following points:

- Compliance with the specification requirements of carmakers: durability, safety, emissions levels, etc.
- High thermal stability capable of withstanding the « slush molding » process (up to 260°C)
- Compatibility between support and coating to ensure adhesion and ageing resistance
- Straightforward application: coverage, perfect masking to ensure neat color separation, and resistance to running.

Already used in several production models, this process is currently undergoing approval by a large number of carmakers.



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# NAKAN®

In the medical sector

Vynil Thermoplastics

Nakan has an excellent processing versatility, flexible and rigid both for injection moulding or extrusion, making it ideally suited to a whole range of medical applications

## Equipment in contact with human tissue

Breathing masks, catheters, respiratory catheters, endoscopic catheters, drainage catheters.

Containers for fluids are suitable for contact with human blood and tissue

Our range of products also includes compounds suitable for eto, gamma ray and steam sterilization. "No-Dop" Compounds are available too.

**NAKAN**

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The world is our inspiration

# PLASTIC ADDITIVES

Your worldwide partner for your formulations and processing needs

A wide range of additives used for the transformation of plastics

## DURASTRENGTH®

200, 300, 400, 500, Séries

NEW D440, D529, D340, D360  
Acrylic impact modifiers

## CLEARSTRENGTH® (C, E, W)

Butadiene and Acrylic based impact modifiers

## PLASTISTRENGTH® (P, L)

Acrylic processing aids / Lubricants

## VIKOFLEX®

Epoxidized oils - Costabilizers and plasticizers

## ALTUGLAS BS®

Matting agents

## THERMOLITE®

Organotin heat stabilizers for PVC

## STAVINOR®

PVC costabilizers

Functional Additives



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# LUCALOR®

A complete CPVC Resin and Compound range

Vinyl products

LUCALOR® CPVC

LUCALOR® CPVC Compounds  
Sheets

Industrial pipes and fittings

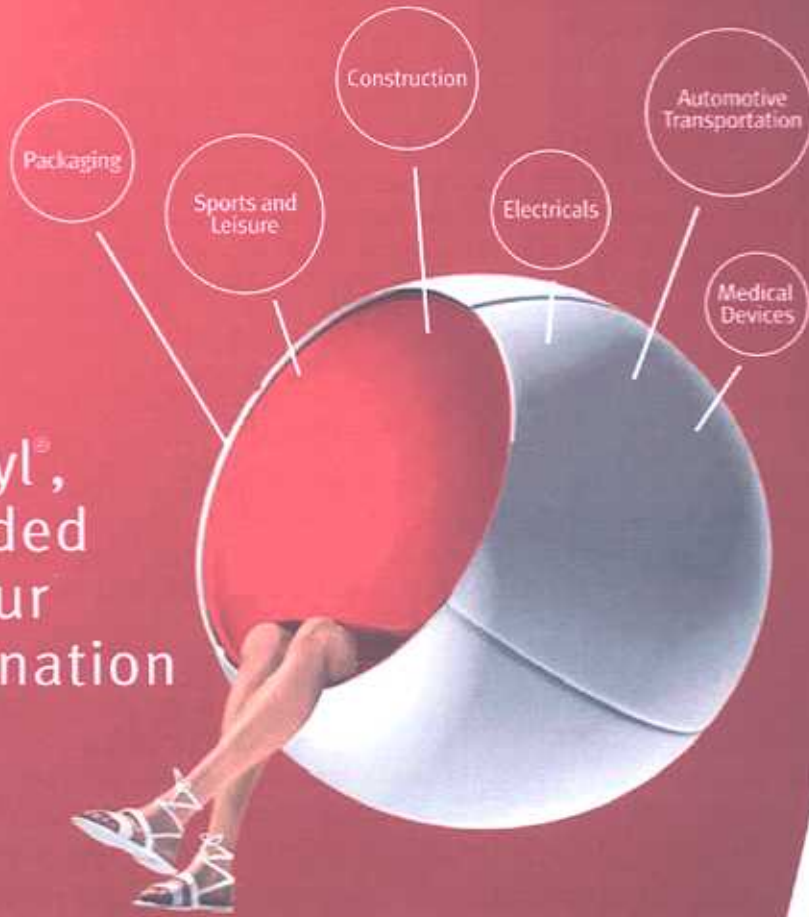
Hot and cold drinking water pipes

LUCALOR® Special CPVC Resins  
Additive for rigid and flexible PVC

Flame retardant  
Smoke suppressant  
Higher temperature  
system (Vicat, HDT)



Lacovyl<sup>®</sup>,  
bounded  
by your  
imagination  
only



## Arkema presents Rilsan® Clear G830, the first biobased transparent Polyamide

Arkema's newest high performance transparent polyamide, Rilsan® Clear G830: first bio based, fully transparent and high performance.

Rilsan® Clear G830 is using 54% of biobased raw material thus contributing to reduce CO<sub>2</sub> emissions. Naturally, Rilsan® Clear G830 offers the same key benefits such as freedom of design, comfort & durability as known from classical Rilsan® Clear G350. Rilsan® Clear G830, a solution to fit perfectly into eco-design concept.



Rilsan® Clear G830 is the latest innovation in bio based high performance Polyamides by Arkema. Rilsan® PA11, Pebax® Rnew and Platamid® Rnew have proven the ability of Arkema to propose innovative bio based solution for high demanding markets.



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# RILSAN<sup>®</sup> PA11 & PA12

A World of Experience and Innovation

High Performance Polyamides

## Key Benefits:

- Outstanding Mechanical Properties (-40°C / +130°C)
- High Flexibility
- Excellent Chemical Resistance
- Lightness
- High Abrasion Resistance
- Ease of Processing
- Long Service Life Time (UV, H<sub>2</sub>O, Temperature...)

## Highly Demanding Applications:

Transportation

Oil & Gas

Sports

Electric / Electronic - Telecom

  
**Rilsan**<sup>®</sup>  
[www.rilsan.com](http://www.rilsan.com)

  
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# Rilsan® PA11: Powerful by nature

A unique bio-based, high performance polyamide produced from renewable castor seeds, Rilsan® PA11 provides an outstanding level of versatility, safety and durability for highly technical applications.

Widely used in the most demanding markets, Rilsan® PA11 uniquely combines properties like chemical, thermal, mechanical resistance, and allows unique design and processing versatility.

Expand your utilization of non-fossil resources into technical applications. Use Rilsan® PA11.

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# Break free.

## Choose your own fluorinated processing aid.

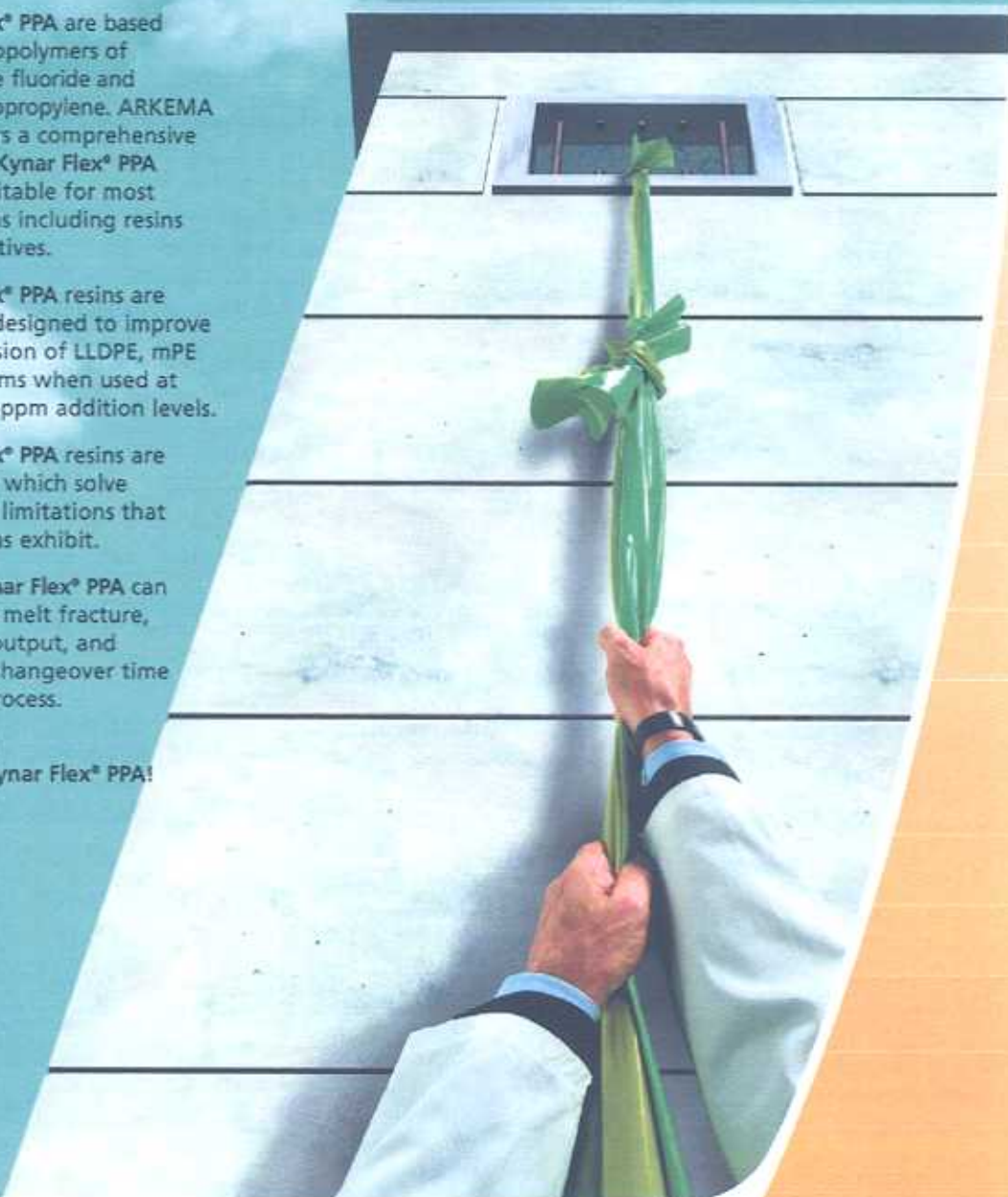
Kynar Flex® PPA are based on pure copolymers of vinylidene fluoride and hexafluoropropylene. ARKEMA now offers a comprehensive range of Kynar Flex® PPA grades suitable for most Polyolefins including resins with additives.

Kynar Flex® PPA resins are specially designed to improve the extrusion of LLDPE, mPE and PP films when used at 200 - 800 ppm addition levels.

Kynar Flex® PPA resins are additives, which solve extrusion limitations that polyolefins exhibit.

Using Kynar Flex® PPA can eliminate melt fracture, increase output, and improve changeover time in your process.

**Get Free!**  
**Choose Kynar Flex® PPA!**



# Kynar® & Kynar Flex®

[www.kynar.com](http://www.kynar.com)

The ARKEMA logo consists of a stylized white swoosh above the word "ARKEMA" in a bold, sans-serif font.

The world is our inspiration



# Is stainless steel making an unwelcome contribution to your product purity

Stainless steel piping has a dirty little secret. It's called rouging. Surface discoloration and contamination inside stainless steel pipe threatening the high purity of the water flowing through it. This doesn't happen with Kynar<sup>®</sup> resins. Corrosion-free Kynar pipe has a smooth inner surface and seamless welds that virtually eliminate bio-agent buildup and make it very

easy to clean. And when you consider that Kynar resins are free of additives, inert, FDA (CFR 21, §117.2510) and USP class VI compliant and free of rouging, you'll soon realize that the lasting purity you're looking for is available through the stainless reputation of Kynar<sup>®</sup> resins. In the Americas call Gary Dennis at 215-419-7535 or internationally Bernard Schlinquer at +33 1 49 00 81 78. [www.kynar.com](http://www.kynar.com)

**Kynar<sup>®</sup> & Kynar Flex<sup>®</sup>**

[www.kynar.com](http://www.kynar.com)



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**With Rilsan® MB 3000, a new halogen-free flame-retardant grade,  
Arkema expands its range of bio-sourced high-performance technical  
polymers for the electronics market**

**Arkema announces the marketing of Rilsan® MB 3000, a halogen-free flame-retardant polyamide 11 for the consumer electronics market.**

With its outstanding properties, Rilsan® MB 3000 is the first technical polymer of 100% vegetable origin to fulfill the particular stringent specifications of this type of applications: mechanical strength, thermal stability, light weight, and straightforward processing. It also boasts the necessary V0 flame resistance, without the need for a halogenated additive, to meet the environmental specifications of this market's key players.

Rilsan® MB 3000 therefore opens the way to new design possibilities for the electronics, cable and fittings markets.

Arkema's Rilsan® PA 11 range comprises 100% bio-sourced polymers derived from castor oil, a renewable vegetable raw material that has not been genetically modified and is inedible, therefore not competing with food production. Their manufacture entails a reduction in fossil energy requirements and in CO<sub>2</sub> emissions.

Rilsan® PA 11 naturally fits in with a product eco-design approach by answering the environmental concerns of consumers whilst also offering outstanding technical performances.

Rilsan® PA 11 is the only polymer capable of simultaneously delivering superior performance in several key physical areas, including chemical and hydrocarbon resistance, impact strength, burst strength, abrasion and crack resistance, flexibility, high service temperature, and excellent long-term ageing.

*With global brands like Rilsan®, Pebax® and Kynar®, unique products like Rilsan® PA 11, Arkema offers its customers global coverage with superior technical and logistics support from its production facilities and research centers in Europe, Asia, and the USA.*

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