

ARKEMA S.A.

Foundation

- The Arkema Group was created in October 2004 from the reorganization of Total's Chemicals branch and spun off in 2006.

Turnover

- 5.9 billion €

Employees

- 14,000

Branches

- Vinyl Products
- Industrial Chemicals
- Performance products

Key materials

- Bio-based polyamides

Key bio-based products

- Rilsan®
- Pebax® Rnew
- Platamid® Rnew
- Rilsan® Clear Rnew
- Rilsan® HT



Company

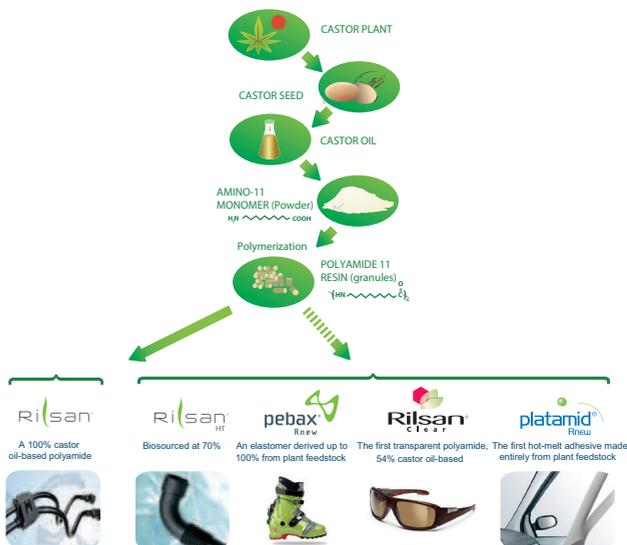
A global chemical company and France's leading chemicals producer, Arkema is building the future of the chemical industry every day. Deploying a responsible, innovation-based approach, we produce state-of-the-art specialty chemicals that provide customers with practical solutions to such challenges as climate change, access to drinking water, the future of energy, fossil fuel preservation and the need for lighter materials. With operations in more than 40 countries, 14,000 employees and seven research centers, Arkema generates annual revenue of € 5.9 billion and holds leadership positions in all its markets with a portfolio of internationally recognized brands. The world is our inspiration.

Even if only 4% of the world annual oil production is used as raw material for plastics, the chemistry of the future will partly result of various polymers and resins derived from bio-based feedstock. Increase the share of renewable raw materials and conserve save fossil resources is a core focus of Arkema's innovation.

Products

Developing chemicals from plants: Bio-sourced plastics today account for 30% of Arkema's technical polymer business, taking up around 2/3rds of its R&D activity. These plastics feature properties that are equivalent or superior to those of their fossil-fuel-based counterparts.

Arkema's expertise in castor oil chemistry for over 60 years with its Rilsan® polyamide 11, 100% derived from this chemistry, recently helped bring out





Link to Agrobiobase



four new polymers:

- Pebax® Rnew, a biosourced elastomer up to 90% derived from castor oil
- Platamid® Rnew, the first hotmelt adhesive entirely of renewable origin
- Rilsan® Clear Rnew, the first transparent 54% biosourced polyamide
- Rilsan® HT, an ultra tough high temperature polymer fulfilling today's general need for lighter materials.

To enable its customer to identify products derived wholly or in part from renewable raw materials (over 20% carbon of non-fossil origin), Arkema has devised the «Arkema Renewables» label. The evaluation of the products' renewable carbon content is carried out by an independent body based on the ASTM 6866.

Innovation on sustainability aims at generating around 400 million euros new sales in next 5 years. Alternative energies, water treatment, composite materials and bio-plastics will be the main drivers of this innovation.

Castor oil, a long-running story: Arkema now markets five families of polymers derived from castor oil. The eldest, Rilsan®, a polyamide composed of 11 carbon atoms, was synthesized by French chemists at the end of World War II. Initially used to make synthetic thread to competed with nylon, its applications soon grew to include cast parts and pipes. Today, Rilsan® polyamide-11 resin is employed in high-value-added applications requiring high strength, such as vehicle gas lines and the flexible pipes used in offshore oil extraction. In the last several years, our expertise has enabled us to market four new families of castoroil-based technical polymers. These include Platamid® Rnew, a hot-melt adhesive made from totally renewable raw materials, Rilsan® Clear Rnew resin, the first fully transparent high-performance polyamide partly biosourced, Rilsan® HT resin for engineered parts subject to temperatures of up to 170°C, especially under automobile engine hoods, and Pebax® Rnew resin.



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