ARKEMA

Advanced Bio-Circular Materials

Healthcare Solutions

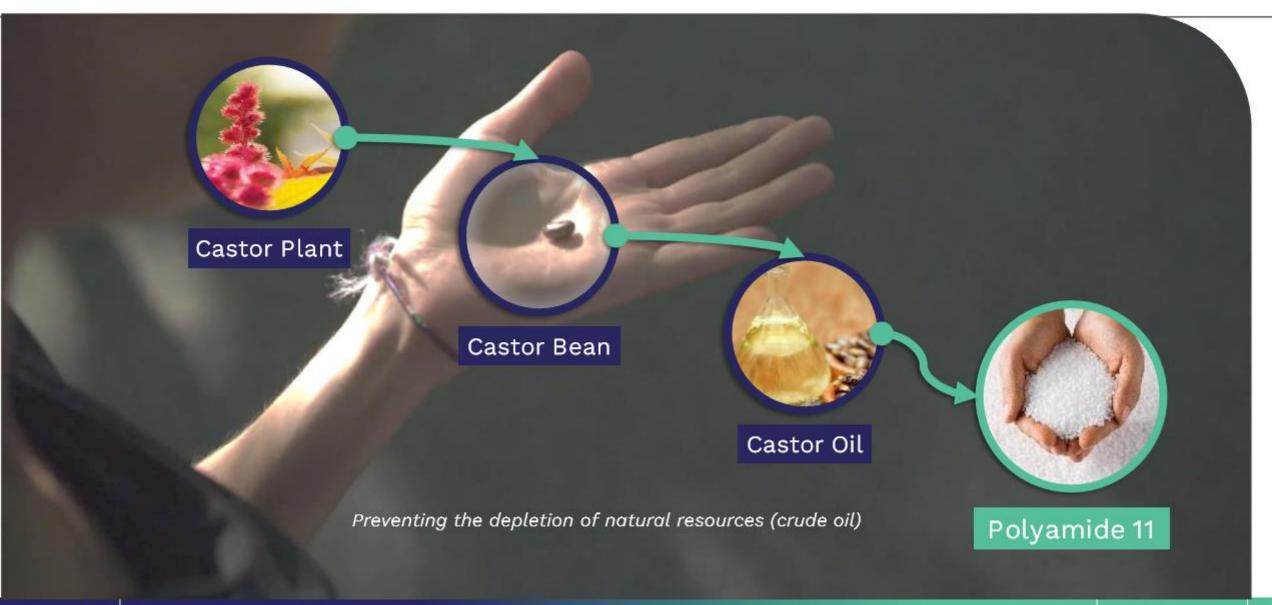




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The story of Arkema's flagship polyamide 11 chemistry

From castor bean to advanced polymers - A miracle of science



ARKEMA Advanced B

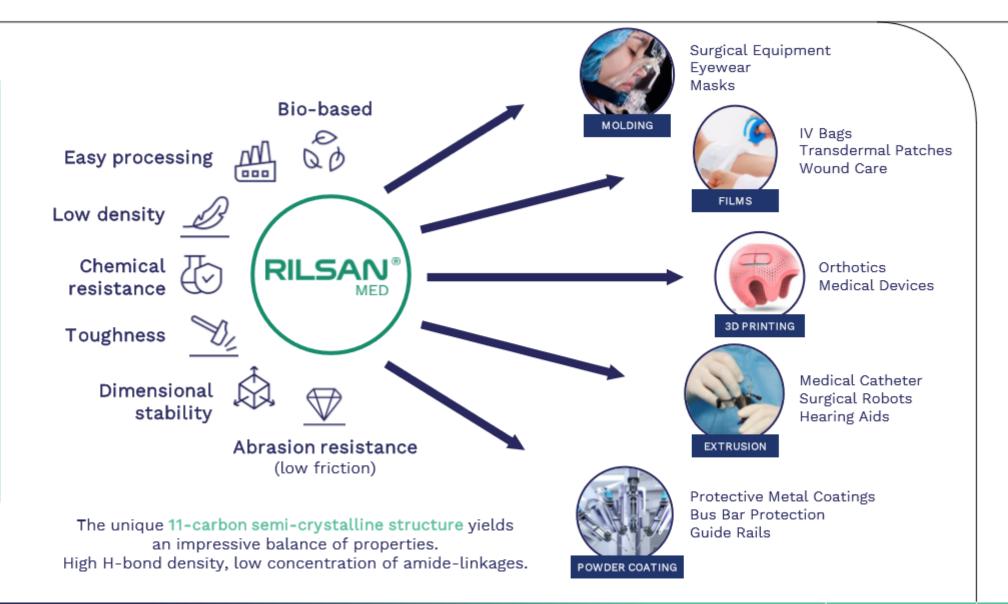


- Advanced Materials
- 2 Bio-Based
- 3 Circular Recyclable

Advanced polymers that pack a punch







Technical Polymers - Healthcare Product Portfolio

100% Bio-based











Thermoplastic Elastomers (TPE)

Transparent Polyamides

Polyamide 11

Polyamide 12

Polyvinylidene fluoride (PVDF)

USP CLASS VI AND ISO 10993-4 AND -5 TESTED



One (1) year change notification



Chemical resistance



Sterilization (Gamma, ETO, Steam)

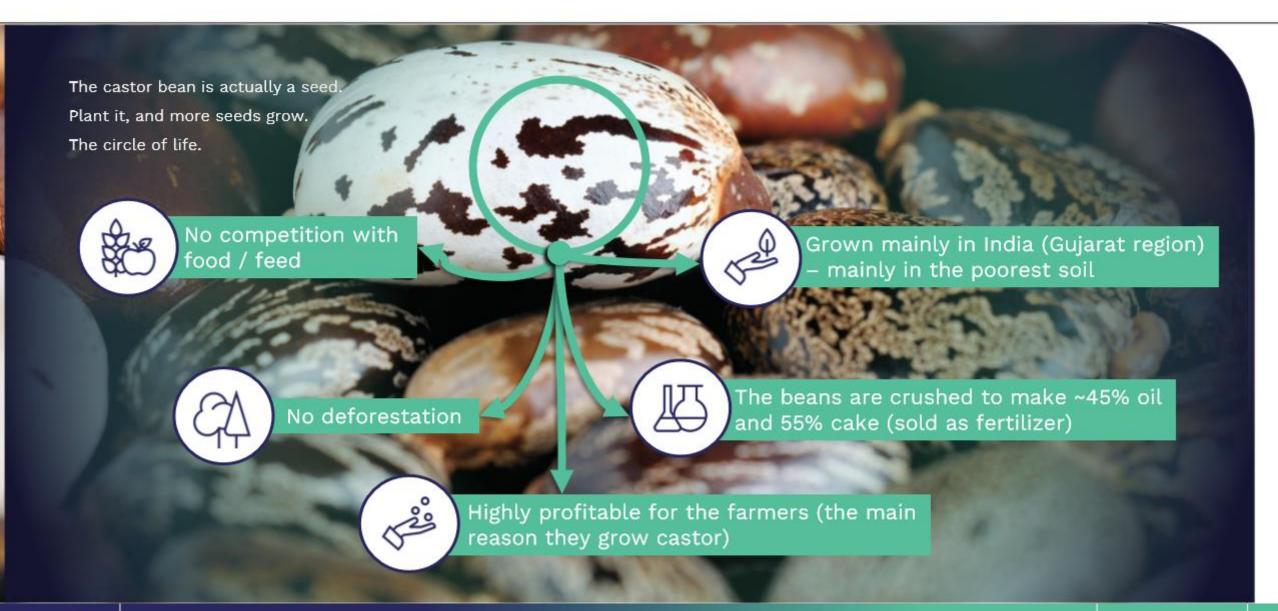


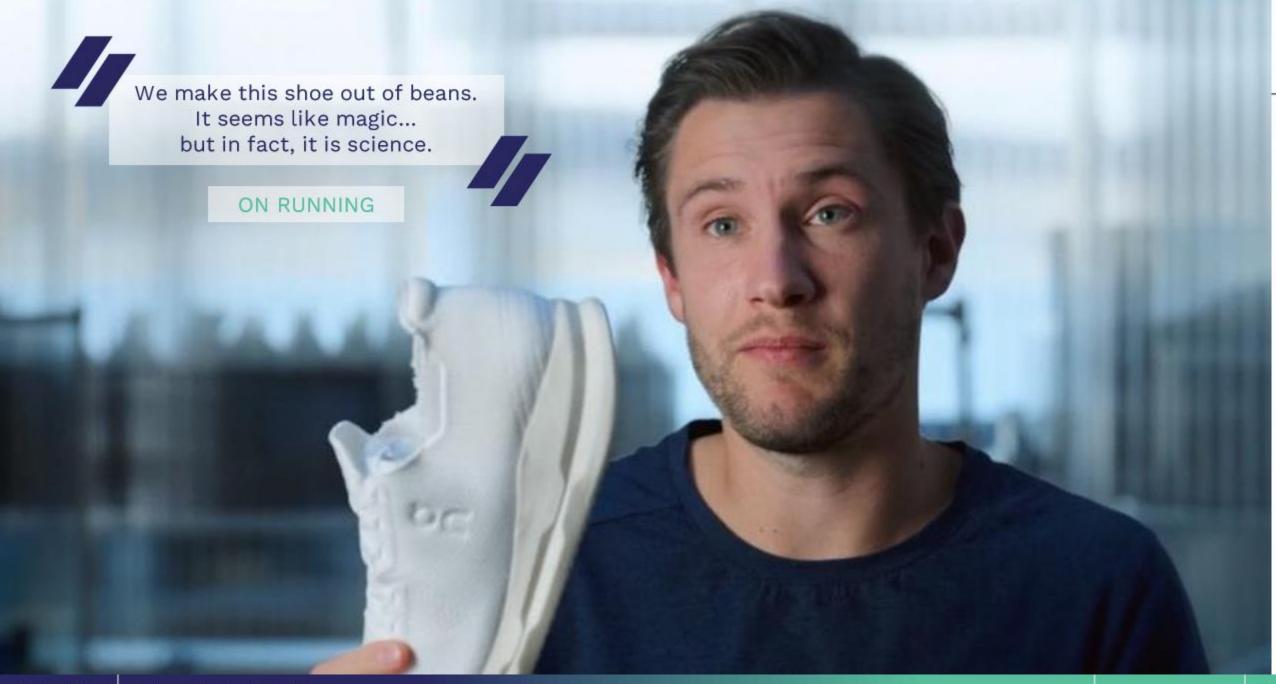
Advanced Materials

Bio-Based

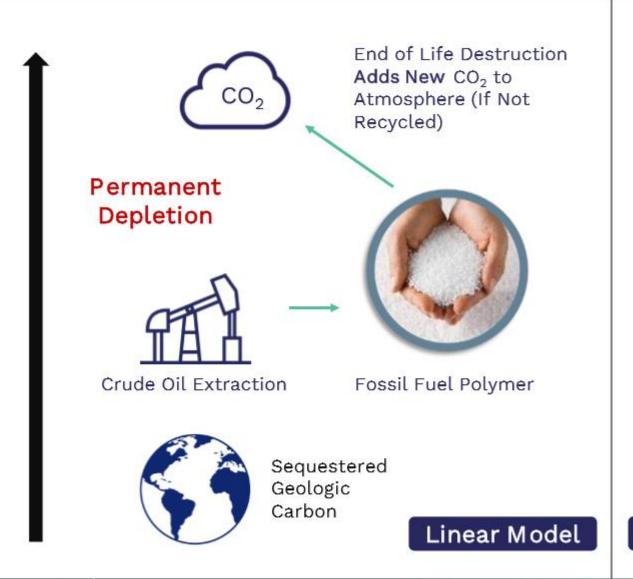
3 Circular - Recyclable

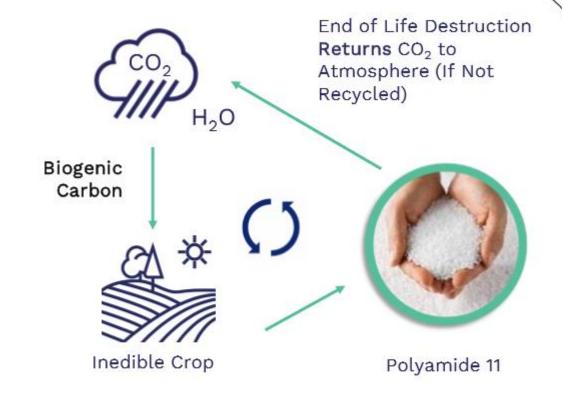
Castor - The magic bean





The BIOGENIC BENEFIT - Turning Atmospheric CO2 into Advanced Materials



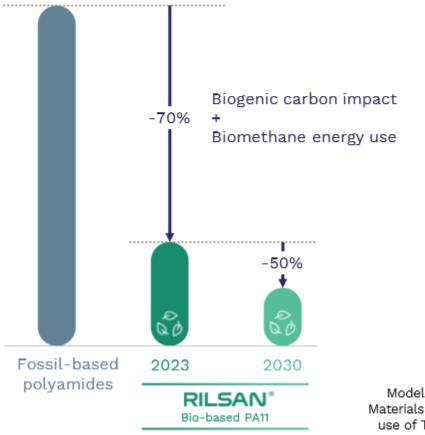


Circular Model

Climate Change Impact Reduction and Other LCA Benefits

Carbon footprint

(comparative data vs standard fossil-based polyamides) Standard ISO 14040/44 (kg eq. CO₂/kg)



Advanced Bio-Circular Materials

Rilsan® PA11's carbon footprint reaches < 2 kg CO2e/kg



- Applies to the entire global production (not limited to a selection of grades)
- Continuous action plan for further reduction by 2030

Agricultural land use Castor grows best in marginal soils



Water depletion
Castor takes advantage of the natural rainy seasons



Model for Fossil Materials Based on use of Traditional Energy Sources

More than just bio-based - The Pragati Initiative



COATINGS HAGAZINE NEWS RESEARCH HARRETS A TECHNOLOG

Arkema Receives ACC's 2021 Sustainable Leadership Award for Societal Contributions

Arkema is currently building the world's largest bio-factory for advanced polyamide 11 in Singapore.



Arkema takes its sustainability role seriously – driving improvements in sustainable castor farming.

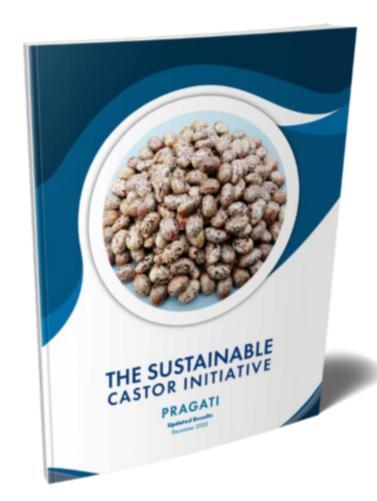
Arkema has been recognized by BMW and many others for pioneering work in Sustainable Farming and bio-circular polymer technology.

Bloomberg





Pragati – Driving more sustainable castor farming



80% of the world's castor is grown in Gujarat, India



Enabling sustainable castor crop production by:



Using good agricultural practices to increase yield and farmer income



Efficiently using water resources and Maintaining soil fertility



Driving adoption of good waste management practices



Enabling better health and safety practices, and respecting human rights

*Launched in 2016, Arkema is a founding member of the Pragati Initiative with BASF, Jayant Agro-Organics Ltd., and Solidaridad

ARKEMA Advanced Bio-Circular Materials

Pragati impacts and results - As of September 2023

More than 74,500 tons of certified castor beans cultivated from 2017 to 2023

Over 7,000 Farmers

More than 7,000 hectares are now being regularly farmed in accordance with the Success sustainable castor code (see www.castorsuccess.org) - more than 27,000 hectares cumulatively; Pragati farmers are increasing their land dedicated to castor farming as it is seen as a profitable crop.

Farmers from more than 100 villages in North Gujarat now participate in

the program

safety kits and crop protection product boxes have been distributed free of charge

medical camps organized in all project villages this year successfully monitoring of 8,500+ farmers, workers, and their family members, of which 65% were farmers enrolled in the Pragati program

As compared to the previous year, water consumption has been lowered by apprex. 21% in the demo plots where accurate measurement and control are in place



More than 380 capacity-building training sessions were held this year

lead farmers have been identified and trained to guide certified farmer groups



ARKEMA

Advanced Bio-Circular Materials

Arkema's Castor Ambition

Explore New Territories

(Supply Chain Versatility and Assurance)





Focus: South America, Africa

Begin pilot purchases

- No Compromise
 - Quality
 - Social and sustainability profile
 - Competitiveness
- Continued Commitment to More Sustainable Farming
 - Proliferate SuCCESS® code
 - Expand scholarships for the children



10%

sourced from at least one new region by 2025

>20%

Of castor farmers globally to be trained, certified

Drive Farmer Education Fund, Continuous Improvement

- O Voluntary Fund for All Castor Stakeholders
 - Focus on training farmers on SuCCESS® code for sustainable castor farming
- Take Advantage of Digital Tools
 - Smart-phone app to be developed and deployed
 - Online training and verification
- Focus on Impacts
 - Water consumption, Chemical use...
 - Yield improvement...
- Raise the Sustainability Standards of Entire Supply Chain



CYCLON, the world's first subscription model shoe designed to be 100% recyclable.

ON Running

Advanced Materials

2 Bio-Based

3 Circular - Recyclable

A new integrated & internal alliance to offer recycled solutions

Arkema invests in recycling of advanced polymers.

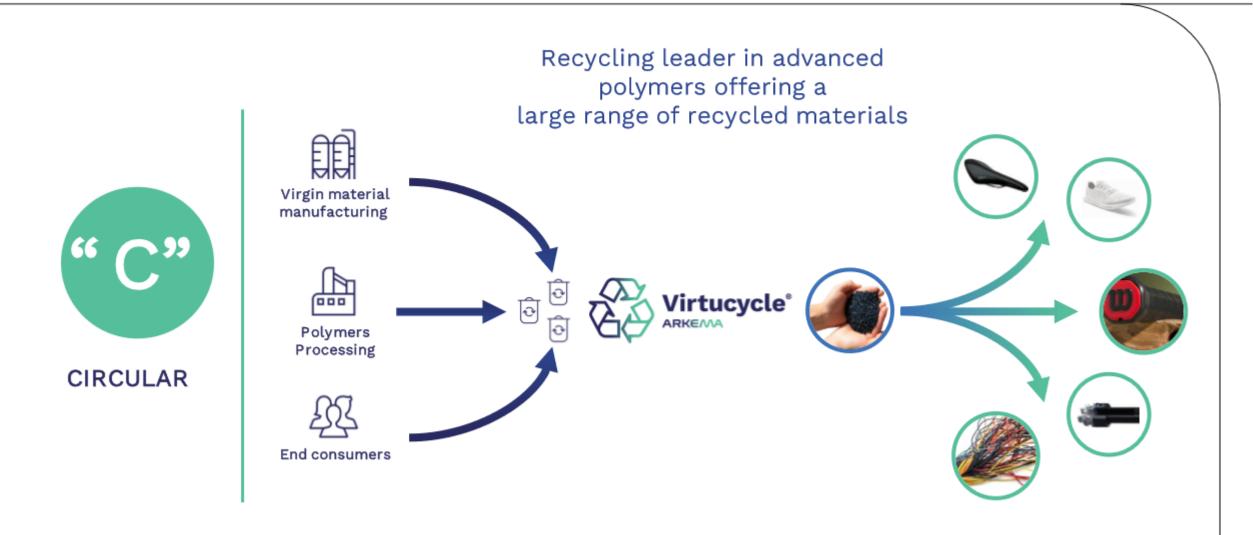


Acquisition - June 1, 2021



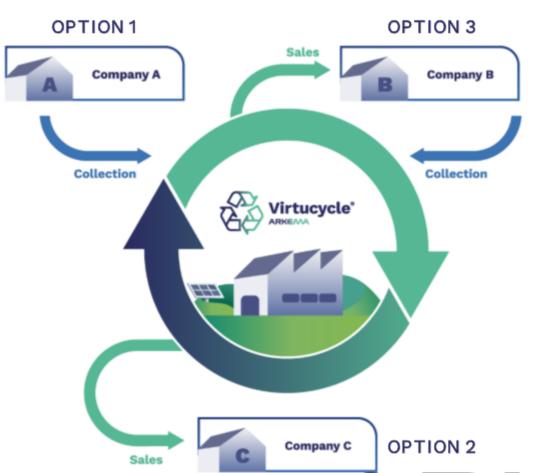
With this acquisition, Arkema will be the first fully integrated high performance polymer manufacturer offering both biobased and recycled materials in order to address the challenges of resource scarcity and end-of-life products

Circular - "cradle to cradle"





Our Offer Adapted to Your Business Needs



Virtucycle® Program Offer

- → We can collect and recycle advanced materials
- → We can provide recycled advanced materials
- → We can collect and provide recycled advanced materials in an open, closed or semi-closed loop model

An Arkema original

→ Since 1947, Arkema remains the only industrial producer of Polyamide 11

→ Rilsan® brand named after La Risle river that flows next to Arkema's Serquigny, FR plant

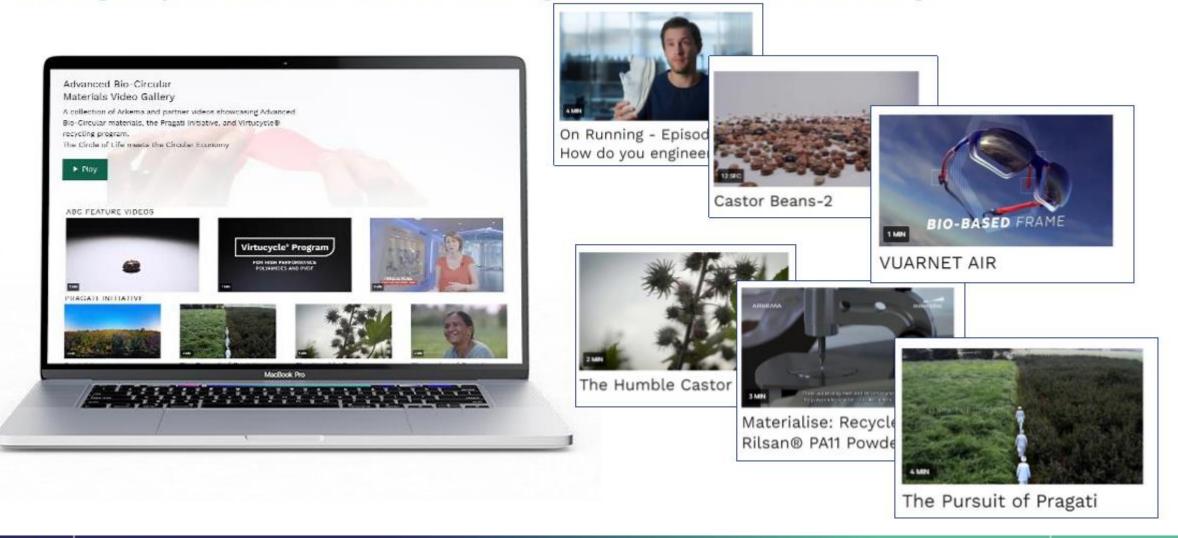
→ Committed to bio-based from the beginning!





One central media library > ark.ma/ABCvideoChannel

A rich gallery of videos available for licensing to our customers free of charge



ARKENA Advanced Bio-Circular Materials



Summary of Arkema's Policy Regarding Medical Device Applications of Arkema Products

Arkema seeks business relationships with customers who participate in the health care industry. Arkema is committed to maintaining safety in supplying the health care industry, and works with the regulatory agencies and its customers to deliver high quality products.

Arkema's core principles that guide its behavior with respect to the use of its products in medical device applications are provided below.

Non-Temporary Implants

Arkema does not supply any products to be used in medical device applications that constitute a non-temporary implant (i.e., that, in whole or in part, may be in contact with a patient's skin, body fluids or tissues for more than 30 days).

Temporary Implants

Arkema may supply products to be used in medical device applications involving temporary implants (30 days or less) in contact with a patient's skin, body fluids or tissues. Arkema only supplies customers with products for temporary implants in accordance with its medical contractual provisions, and where other specific corporate risk management conditions are met.

Other Medical Device Applications (Non Implant)

Arkema may supply products for use in all other medical device applications. Arkema will use its good business judgment to set specific Arkema corporate risk management conditions in such circumstances.

Design, Manufacture and Sale of Medical Devices

Arkema does not design, manufacture and/or directly sell any medical devices. Arkema also does not co-design, or offer assistance to any purchaser of Arkema products, in their design, manufacture and/or sale of products for medical devices.

Medical Grade Products

Arkema has designated specific medical grade compositions for its products. Customers who intend to use Arkema products in a medical device application will only be supplied with these specific medical grade compositions. No other Arkema products may be supplied for use in medical device applications.

Appropriate Use of Arkema Products

Arkema will not itself perform clinical medical studies concerning the use of its products for any particular medical device application. Arkema will not engage in any type of suitability determinations for the use of its products in any medical device applications.

Responsibility of Medical Device Manufacturer

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements.

It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

Trade Names

Unless Arkema expressly agrees by written contract, Arkema product names, trademarks and the Arkema name shall not be used with any medical devices, and customers should not represent to others that Arkema permits, recommends, or endorses the use of our products in any medical devices.

Warranties

ARKEMA WILL NOT WARRANT THAT ITS PRODUCTS ARE SUITABLE FOR USE IN ANY MEDICAL DEVICE OR MEDICAL APPLICATION.

ark.ma/MEDpolicy