

Colombes, 10th October 2024

ARKEMA REACHES A CARBON FOOTPRINT OF 1.3 KG CO₂e/KG FOR THE GLOBAL PRODUCTION OF ITS BIO-BASED POLYAMIDE 11 CHAIN, 80% LOWER THAN CONVENTIONAL FOSSIL-BASED POLYAMIDES

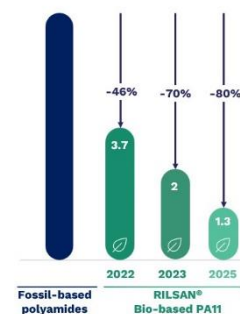
One year ago, Arkema announced a significant reduction in the carbon footprint of its bio-based Rilsan® polyamide 11 reaching less than 2 kg CO₂e/kg⁽¹⁾. The Group now announces a further reduction to 1.3 kg CO₂e/kg⁽¹⁾ by using more renewable electricity sources and by making several additional energy efficiency improvements in its production sites. The new value applies to global production of Rilsan® polyamide 11 beginning in January 2025.

Derived entirely from renewable castor seeds, **Rilsan® polyamide 11** is 100% segregated bio-based. Arkema produces these advanced polymers in all three major geographic regions – Europe, North America, and Asia. Rilsan® polyamide 11 is used extensively in very demanding markets such as new energy vehicles, 3D printing, consumer electronic or high-performance running shoes.

“This represents another important milestone in our evolution and our commitment to drive environmental impacts even lower” said Laurent Tellier, Senior Vice President, Arkema’s High Performance Polymers. “The new carbon footprint value represents a reduction of around 80% relative to polyamide resins produced using fossil-based raw materials and conventional energy sources. As we explained last year, our lower carbon footprint value applies to our entire global production, not just a particular set of grades or a certain location. **We are committed to a holistic sustainability approach** – from the planting of the castor seeds to the manufacture of amino 11 monomer and ultimately the polymerization, distribution, and even recycling of our polymers. We are now well on track to deliver on our ambition to lower the PCF even further, to 1 kg CO₂e/kg by 2030.”

Carbon Footprint

(PA11 comparative data vs standard fossil-based polyamides)
Standard ISO 14040/44 and ISO 14067 (kg CO₂e/ kg)



Model for Fossil Materials Based on use of Traditional Energy Sources

For more about Arkema’s high performance polymers:

<https://hpp.arkema.com/en/>

For more about Arkema’s advanced bio-circular materials:

<https://hpp.arkema.com/en/sustainability/advanced-bio-circular/>

For more about Arkema’s Virtucycle® recycling program:

<https://hpp.arkema.com/en/sustainability/virtucycle/>

(1) This value refers to Rilsan® PA11 neat resin; Exact values are grade dependent and are disclosed in detail upon request, calculated according to ISO14040, 14044 and 14067.

Building on its unique set of expertise in materials science, **Arkema** offers a portfolio of first-class technologies to address ever-growing demand for new and sustainable materials. With the ambition to become a pure player in Specialty Materials, the Group is structured into 3 complementary, resilient and highly innovative segments dedicated to Specialty Materials - Adhesive Solutions, Advanced Materials, and Coating Solutions - accounting for some 92% of Group sales in 2023, and a well-positioned and competitive Intermediates segment. Arkema offers cutting-edge technological solutions to meet the challenges of, among other things, new energies, access to water, recycling, urbanization and mobility, and fosters a permanent dialogue with all its stakeholders. The Group reported sales of around € 9.5 billion in 2023, and operates in some 55 countries with 21,100 employees worldwide.

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