



It all starts with...
the total package.



VISIT ADVANSIX.COM TO LEARN MORE.

ADVANSIX
Good chemistry.



All packaging is not created equal.



It all started with innovators at AdvanSix who found a way to improve multilayer flexible packaging's environmental footprint without compromising its unique ability to protect high-value products. AdvanSix post-industrial and post-consumer recycled grades Aegis® Resins and post-industrial Capran® BOPA Films use 100% recycled content to produce nylon 6 products that are every bit as processable, formable, and durable as virgin nylon.

NYLON 6 PACKAGING MADE FROM 100% RECYCLED CONTENT.

AdvanSix was the first to allocate its post-industrial recycled (PIR) raw materials reclaimed from nylon monomer waste streams for its customers in 2021. Now we're taking nylon recycling to a whole new level by adding post-consumer recycled (PCR) materials to the mix.

This move is perfectly timed to help meet the rapidly growing demand among plastic and film manufacturers and their end-user customers for a reliable, cost-effective supply of 100% recycled materials.

THESE NEW PIR AND PCR RECYCLED NYLON 6 MATERIALS:

- Offer the same excellent physical and mechanical properties as conventional nylon products.
- Are drop-in replacements for virgin raw materials with no costly re-qualifications or expensive process and equipment changes for customers.
- Meet the high expectations of processors, brand owners and consumers for packaging that meets the highest food compliance and medical packaging standards.
- Provide a circular solution to help companies meet sustainability goals for 2025, 2030 and beyond.
- Are certified to be of 100% recycled content by an independent third party.¹
- Qualify for recycled content claims under Federal Trade Commission guidelines.²

¹SCS Global Services

²Environmental Claims: Summary of the Green Guides | Federal Trade Commission (ftc.gov)



WELCOME TO THE WORLD OF RECYCLED NYLON 6

The AdvanSix solution to providing nylon 6 with recycled content involves recovering the unreacted caprolactam from our process waste streams and collecting quality PCR waste stream materials from industrial consumers of our products, including our nylon processing partners.

PIR and PCR materials are combined, purified and reintroduced to the nylon manufacturing process. We use a third-party certified mass balance and allocation approach to monitor and validate mixed streams of materials within the process.

Our high-yield and low-energy recycling procedure results in a cost-effective approach that provides multiple advantages versus mechanical or chemical recycling processes.

Rather than relying exclusively on either PIR or PCR materials, our dual-source approach makes more materials available for recycling as we work to meet the growing demand for sustainable high-performing plastics and keep as little production waste as possible from entering landfills.

THE ADVANSIX DIFFERENCE

For more than a century, customers have turned to AdvanSix for solutions to solve their most difficult challenges. As a diversified chemistry company, we are the source of vital chemistries that help our customers succeed and improve the lives of people everywhere.

We are committed to reducing our environmental impact and using our unique solutions portfolio to help our customers achieve their sustainability goals. Together, we can offer innovative solutions that further reduce waste in product lifecycles and support the transition to a circular economy.

ADVANSIX AEGIS® PIR AND PCR GRADE RESINS AND CAPRAN® PIR GRADE BOPA FILMS ARE IDEAL FOR:

- Food and medical packaging requiring FDA compliance.
- Thermoformed and shrink meat and cheese packaging.
- Bag-in-box packaging.



NOTE

This literature is intended to provide general information only. As such, AdvanSix assumes no liability for the interpretation or use of information presented herein. For recommendations specific to your applications, please contact the appropriate supplier(s).

Although AdvanSix Inc. believes that the information contained herein is accurate and reliable, it is presented without guarantee or responsibility of any kind and does not constitute any representation or warranty of AdvanSix Inc., either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials, such as other raw materials, application, formulation, environmental factors and manufacturing conditions among others, all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liabilities (including, but not limited to, risks relating to results, patent infringement, regulatory compliance and health, safety and environment) related to the use of the products and/or information contained herein.

Aegis® and Capran® are registered trademarks of AdvanSix Inc. May 2023.
©2023 AdvanSix Inc. All rights reserved.

CONTACT ADVANSIX

Contact AdvanSix to learn more about the benefits of Aegis® resins and Capran® films.

[ADVANSIX.COM/NYLONSOLUTIONS](https://www.advansix.com/nylonsolutions)

1-844-890-8949 (TOLL FREE, U.S./CAN.)

1-973-526-1800 (INTERNATIONAL)

ADVANSIX HEADQUARTERS

300 Kimball Drive, Suite 101

Parsippany, NJ 07054



ADVANSIX
Good chemistry.