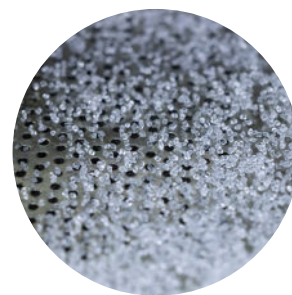


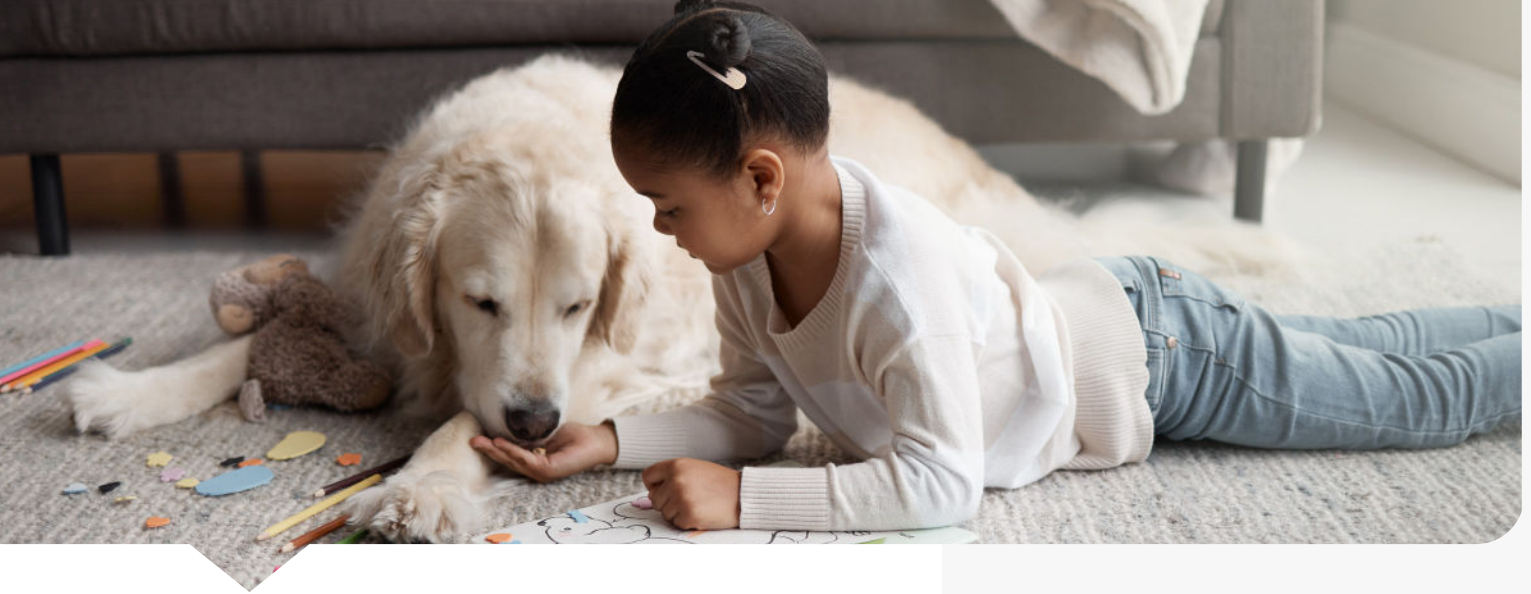


It all starts with...  
sustainable  
material impact.



VISIT [ADVANSIX.COM](https://advansix.com) TO LEARN MORE.

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Good chemistry.



## All consumer products are not created equal.

It all started more than a century ago when AdvanSix products began helping to overcome our customers' most complex challenges. Today, we remain committed to helping our customers meet the growing demand for reliable, cost-effective, fully traceable 100% recycled materials without compromising the quality and performance of downstream, high-value consumer products for various markets and industries.

### **NYLON 6 MONOFILAMENTS AND FIBERS MADE FROM 100% RECYCLED CONTENT**

In 2021, AdvanSix was the first to allocate and achieve third-party certifications on its Post-Industrial Recycled (PIR) raw materials reclaimed from nylon monomer waste streams for its customers. 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 rapidly growing demand among fiber and filament manufacturers and their end-user customers for a reliable, cost-effective supply of 100% recycled materials.



### **GRADE-SPECIFIC CARBON FOOTPRINT REDUCTION VALUES ACHIEVED WITH ADVANSIX'S VIRGIN PRODUCTS<sup>1</sup>**

AdvanSix certified Aegis® PIR and PCR nylon products offer customers identical, excellent physical and mechanical properties as our conventional nylon products. Because they are drop-in replacements for virgin products, they require no costly re-qualifications or expensive process and equipment changes.

*Our Fiber & Filament Caprolactam and PA6 products offer an approximately 80% or greater reduction in global warming potential (GWP) compared to standard Aegis counterparts.<sup>1</sup>*

### **THESE NEW PIR AND PCR RECYCLED NYLON 6 RESINS:**

- Meet the high expectations of processors, brand owners and consumers.
- Provide a circular solution to help companies meet their sustainability goals.
- Employ fully-tracked 100% recycled content, which has been certified by two separate independent third parties.<sup>1</sup>

<sup>1</sup>SCS Global Services and ISCC PLUS



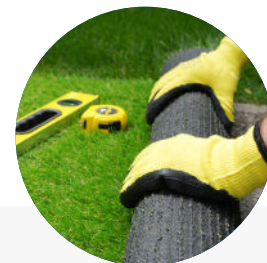
## WELCOME TO THE WORLD OF RECYCLED NYLON 6

The AdvanSix solution to providing nylon 6 with recycled content involves recovering the unreacted monomer caprolactam from our process waste streams (for PIR) and collecting similar waste stream materials from industrial consumers of our caprolactam and our nylon processing partners. The AdvanSix solution to providing nylon 6 with recycled content involves recovering the unreacted monomer caprolactam from our process waste streams (for PIR) and collecting similar waste stream materials from industrial consumers of our caprolactam and our nylon processing partners (for PCR).

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 an effective bridging solution for industries still facing technical challenges from mechanically and chemically recycled nylon.

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



## THE ADVANSIX DIFFERENCE

As a diversified chemistry company, our customers can count upon a reliable and sustainable supply of quality products that emerge from our integrated value chain of U.S. based manufacturing facilities. We strive to deliver best-in-class customer experiences and differentiated offerings that are the building blocks for countless products that touch people's daily lives.

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 bring forth innovative solutions that further reduce waste in product lifecycles and support the transition to a circular economy.

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### ADVANSIX AEGIS® PIR AND PCR GRADE RESINS AND PIR CAPROLACTAM ARE IDEAL FOR:

- Bulk continuous filament (BCF) and monofilament manufacturing to meet higher speed performance and quality standards.
- High-traffic flooring applications for durability, resilience and wear performance.

## HIGH-QUALITY PRODUCTS CERTIFIED BY INDEPENDENT THIRD PARTIES

Employing 100% recycled content certified by two separate independent third parties (SCS Global Services and ISCC PLUS), AdvanSix Aegis® PIR and PCR nylon resins, along with its caprolactam monomer, meet the high expectations of processors, brand owners and consumers. Our Life Cycle Assessment (LCA) has been critically reviewed by an independent panel in conformance with ISO 14010 and ISO 14044.

AdvanSix is certified by the International Sustainability and Carbon Certification (ISCC) PLUS standard for three of its manufacturing sites in Frankford, Pa., Hopewell, Va. and Chesterfield, Va.

ISCC PLUS is a globally recognized, voluntary certification system for developing sustainable supply chains. Verified through an in-depth audit, the ISCC PLUS certification verifies and validates the adoption of clear, transparent and traceable practices, especially for organizations applying the mass balance approach to track amounts and sustainability characteristics of feedstocks. This audit activity tracks AdvanSix's recycled materials at all relevant sites to support the transition to circular economy principles – reduce, reuse and recycle.

This certification complements AdvanSix's existing recycled nylon product lines with 100% post-industrial recycled content or 100% post-consumer recycled content, each bearing SCS Recycled Content Certifications.



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## CONTACT ADVANSIX

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

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