

RESHAPING PLASTIC FILM RECYCLING



Together, we are reshaping plastics to be our customers' first and best choice.

CIRCULARITY

Mechanical recycling is here, now, at scale, and can be added back into most films that we use in our everyday lives.

2023

Project approval and site preparation



2024

Site preparation, equipment installation, hiring and training of employees



2025

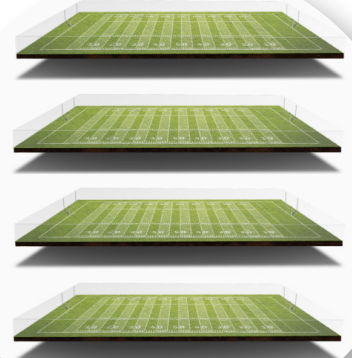
First line in operation

NOVA Circular Solutions' first SYNDIGO™ Mechanical Recycling Facility

Located in Connorsville, Indiana, the facility leverages a state-of-the-art design and world-class equipment to produce highly advanced recycled polyethylene resins made from post-consumer films. The facility will produce a range of recycled polyethylene resins for use in an abundance of applications including demanding food packaging products.

Plastic films collected from retail and distribution centers will be processed into pellets and sold as NOVA Chemicals' SYNDIGO rPE (rLLDPE) with an estimated production of 110M lbs. annually by 2026.

- That is 145K bales of plastic that will be processed and not placed in the landfill
- Which is 14K bales per month
- Or, 400 bales per day
- For context, 9.7MM ft³ (275K M³) of film collected and diverted from landfills each year
- That's enough film to fill four professional football fields to the top of the goal posts!



We work with companies to implement plastic waste collection programs. We collect "back-of-house" film which provides consistent and clean feedstock for recycled polyethylene.



We are giving plastic waste a renewed purpose.

All post-consumer plastic recycled at the recycling facility in Connersville will be converted into SYNDIGO recycled polyethylene.

The mechanical recycling process at our Connersville facility has received a Letter of Non Objection (LNO) from the U.S. Food and Drug Administration (FDA) confirming its ability to produce post-consumer recycled linear, low-density polyethylene (rLLDPE) that is suitable for most food-contact applications.

Creating a Closed Loop System

NOVA Circular Solutions is the ideal partner for brand owners and retailers to set up a closed loop system. We can take PE film streams and recycle them to their highest and best use through mechanical recycling. Participating in our program will enable brand owners and retailers to support the circular economy and promote sustainability. The plastic film that accumulates from products packaged in plastic can be collected, processed at our Connersville facility and turned into SYNDIGO rPE. The used film that distribution centers and retailers acquire from multiple sources can then reenter the market as recycled content, reducing the need for first-production plastics and enabling brand owners and retailers to:

- Increase the use of recycled materials
- Build your brand and customer loyalty
- Reduce waste that goes to landfill
- Protect the environment
- Support the community

Together with Novolex, we work with brand owners and retailers to develop and implement a film collection protocol. Our goal is to make the process as simple as possible for brand owners and retailers by understanding operations and explaining how to maximize the value of film and collect it from facilities.



WE MAKE PLASTIC FILMS RECYCLING EASY

- We can develop new and/or expand film collection programs
- We can help get the most value from plastic films
- We make collecting plastic films easy and efficient
- We can develop new products and applications that transform collected films into high performing recycled polyethylene products that can be used in closed loop applications

Growing a circular economy for plastics will require collaboration and partnership across the value chain. This is a great example of a customer and supplier coming together with shared values, vision, and commitment to the circular economy.