

SYNDIGO™

Recycled Polyethylene:
The Shape of Things to Come



A Plastic with Renewed Purpose

NOVA Chemicals' SYNDIGO™ recycled polyethylene product portfolio enables converters and brand owners to realize their recycled content goals and meet the increased demands of consumers.

SYNDIGO resins are setting a new industry standard for recycled product development – they are ideal for broad market use, including the demanding food packaging industry. We believe that mechanically recycled PE is today's answer to circularity. It's here today, available at scale, and is continually improving.

- Reduces overall plastic waste and offers a recycled solution that helps protect our planet for future generations
- Offers more opportunities for converters and brand owners to incorporate rPE into plastic packaging and products
- Includes three resins designed for food and non-food contact applications
- Used in a variety of flexible and rigid applications from food packaging to e-commerce mailers to blow molded bottles

Three Mechanically Recycled Resins Available Today:



1. rPE-0418: a mechanically recycled resin sourced from agricultural film. It is ideal for e-commerce mailers, reusable carry-out bags, protective packaging, and collation shrink applications
2. rPE-0860-FC: an FDA-compliant mechanically recycled resin sourced from High Density Polyethylene (HDPE) milk jugs. It is ideal for various types of flexible and rigid food packaging
3. rPE-0860: a mechanically recycled resin ideal for blow molding converters and brand owners that are transitioning non-food contact packaging towards more sustainable products and packaging

SYNDIGO™

NOVA Circular Solutions' First SYNDIGO Mechanical Recycling Facility

NOVA Chemicals® | Circular Solutions

Located in Connersville, 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 SYNDIGO recycled polyethylene resins for use in an abundance of applications including demanding food packaging products. The location also offers rail access, enabling efficient distribution of SYNDIGO rPE to customers.

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

NOVA Circular Solutions is collaborating with Novolex® to have the facility **operational in 2025**. Novolex is a leading developer of packaging products with 15 years' experience in operating plastic film recycling facilities.

According to studies performed by third parties such as Franklin Associates and APR, mechanical recycling processes offer the potential to produce products that are lower carbon than virgin plastics, and we are excited to get SYNDIGO1 in Connersville up and running to verify its product carbon footprint relative to our own virgin PE in accordance with internationally recognized standards.



2023

Project approval and site preparation



2024

Site preparation, equipment installation, hiring and training of employees



2025

First line in operation

Letter of Non Objection (LNO) received from the U.S. FDA confirming the SYNDIGO facility in Connersville, IN will produce rPE that is suitable for broad food-contact applications.