

A leader in consumer packaging resins



Leading

We are the world's largest licensor of polyolefin and polypropylene technologies.



- Global producer of **polypropylene** compounds
- Global producer of **oxyfuels**
- North American and European producer of **polypropylene**
- North American and European producer of **oxyfuels**
- Producer of **polyethylene** in Europe

Differential

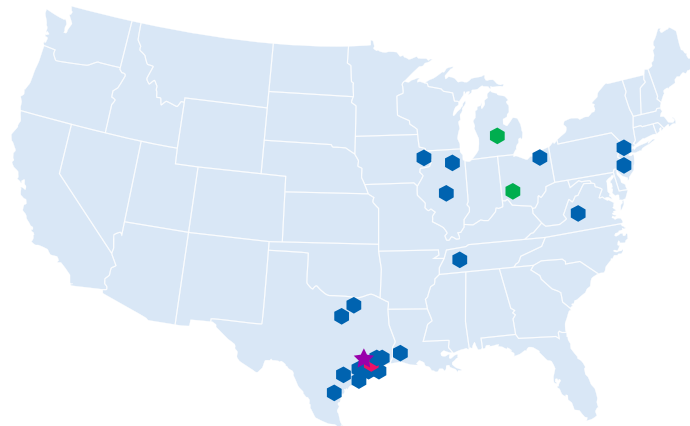
LDPE autoclave and tubular production with Midwest asset footprint

Global

We manufacture at **94** sites in **32** countries. Our products are sold in more than **100** countries.

United States

Illinois	●	Ohio	● ●
Indiana	●	Pennsylvania	●
Iowa	●	Tennessee	●
Louisiana	● ●	Texas	● ● ● ●
Michigan	● ●	Houston	★
New Jersey	●	Virginia	●



- ★ Administrative Offices/Headquarters
- Manufacturing
- Technology Centers
- Joint Venture

Industry-Leading Sustainability Ambitions and Actions




Ending plastic waste

2MM+ TONS
of recycled and renewable-based polymers produced and marketed annually by 2030


For every \$
we will invest in venture funds that address the plastic waste challenge; we help catalyze \$5 from co-investors

Zero
plastic pellet loss to the environment from our facilities




2MM tons


of recycled or renewable-based polymers annually by 2030



Plastic made from plastic waste through **Mechanical Recycling**



Plastic waste converted into feedstock through **Advanced Recycling**



Bio-renewable waste converted through **Advanced Recycling**

*Our climate goals are science-based. Relative to 2020 level.*This goal was set and agreed to by the member companies of PlasticsEurope and The American Chemistry Council.

North America Technical Center

The Cincinnati Technical Center is equipped to provide:

- Technical Service
- Application Development
- Product Development
- Material Properties Development
- Processing, Testing, and Characterization
- Catalyst Systems Scale-up



Application Lab Capabilities:

- Extrusion Coater/Laminator
- Mono, 3 & 7 Layers Blown Film Lines
- 5 layer / 3 extruder Coextrusion Cast Film Line
- Machine Direction Orientation Line

Extrusion Coating / Lamination Line

- Up to 5 layers (3 extruders)
- Substrate widths up to 30 inches
- Maximum line speed: 3000 fpm
- Substrate pre-treatment
Flame, Corona, Plasma, Primer
- Ozone treatment of melt curtain
- Post-treatment
Corona & Plasma

7-Layer Blown Film Line

- Designed for multi-layer high barrier food packaging (EVOH, PA/PE coextrusions)
- 7 Layer / 7 Extruders
- Typical Layer Distribution:
 - Outer 4 layers: 15-20% of overall structure
 - Inner 3 layer: 5-10% of overall structure
- 60mm Pancake die (Die pins: 1.0, 1.5 and 2.0 mm)
- Dual Lip Air Ring
- Maximum lay flat = 350 mm (13.7 in)
- Haul off speed = 12 – 30 m/min (39 – 98 ft/min)

Product Highlights

- Extrusion coating grades
 - Paperboard coating (NA217000)
 - Flexible packaging (NA214000)
- Blown film grades
 - HDPE high moisture barrier grades (M6020SB)
 - Butene and hexene LLDPE
 - LDPE clarity grades
 - Plexar tie resins
 - PB-1 peel seal resins

Louisiana Integrated PolyEthylene Joint Venture, LLC

- New world scale LLDPE and LDPE production lines
- Best-in-class gels and color
- LLDPE
 - Low extractables in blown film
 - Best-in-class cast stretch grades
 - TNPP-free additives
- LDPE
 - Excellent optical properties over entire MI range

